

# NEWFIELD



September 15, 2006

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill

<b>Federal 9-24-9-16</b>	<b>Federal 13-24-9-16</b>
<b>Federal 10-24-9-16</b>	<b>Federal 14-24-9-16</b>
<b>Federal 11-24-9-16</b>	<b>Federal 15-24-9-16</b>
<b>Federal 12A-24-9-16</b>	<b>Federal 16-24-9-16</b>

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 13-24-9-16 and 14-24-9-16 are Exception Locations. Our Land Department will send you the required Exception Location Letters. If you have any questions, feel free to give either Brad Mecham or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**

**SEP 20 2006**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

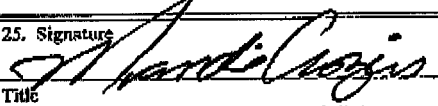
FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-15855
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Federal 14-24-8-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SE/SW 617' FSL 2285' FWL At proposed prod. zone		9. API Well No.
14. Distance in miles and direction from nearest town or post office* Approximately 17.8 miles southwest of Myton, Utah		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 817' f/sec, NA' f/unit		11. Sec., T., R., M., or Blk. and Survey or Area SE/SW Sec. 24, T9S R16E
16. No. of Acres in lease 1200.00		12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 40 Acres		13. State UT
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1058'		19. Proposed Depth 5835'
20. BLM/BIA Bond No. on file UTB000192		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5704' GL
22. Approximate date work will start* 1st Quarter 2007		23. Estimated duration Approximately seven (7) days from spud to rig removal

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUTO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 9/15/06
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.	UTU-15855
6. If Indian, Allottee or Tribe Name	N/A
7. If Unit or CA Agreement, Name and No.	N/A
8. Lease Name and Well No.	Federal 14-24-9-16
9. API Well No.	43-013-33343
10. Field and Pool, or Exploratory Monument Butte	
11. Sec., T., R., M., or Blk. and Survey or Area	SE/SW Sec. 24, T9S R16E
12. County or Parish	Duchesne
13. State	UT

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		
2. Name of Operator	Newfield Production Company	
3a. Address	3b. Phone No. (include area code)	
Route #3 Box 3630, Myton UT 84052	(435) 646-3721	
4. Location of Well (Report location clearly and in accordance with any State requirements. *)		
At surface SE/SW 617' FSL 2285' FWL 579508X 40.01 0887		
At proposed prod. zone 4429171Y -110.068432		
14. Distance in miles and direction from nearest town or post office*	Approximatley 17.8 miles southwest of Myton, Utah	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 617' f/lse, NA' f/unit	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
	1200.00	40 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1058'	19. Proposed Depth	20. BLM/BIA Bond No. on file
	5835'	UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
5704' GL	1st Quarter 2007	Approximately seven (7) days from spud to rig release.

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| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature	Name (Printed/Typed)	Date
	Mandie Crozier	9/15/06
Title		
Regulatory Specialist		
Approved by Signature	Name (Printed/Typed)	Date
	BRADLEY G. HILL	06-12-07
Title	Office	
	ENVIRONMENTAL MANAGER	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
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\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

RECEIVED

SEP 20 2006

DIV. OF OIL, GAS & MINING

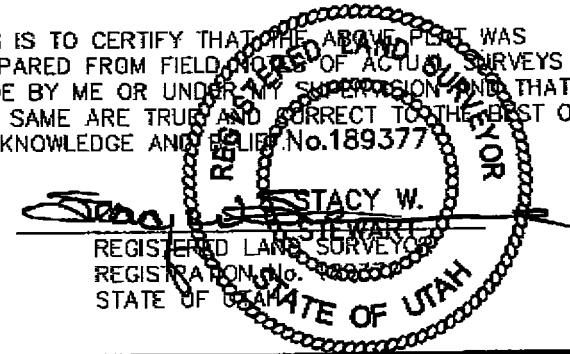
**T9S, R16E, S.L.B.&M.**

**NEWFIELD PRODUCTION COMPANY**

WELL LOCATION, CASTLE PEAK  
14-24-9-16, LOCATED AS SHOWN IN  
THE SE 1/4 SW 1/4 OF SECTION 24,  
T9S, R16E, S.L.B.&M. DUCHESNE COUNTY,  
UTAH.

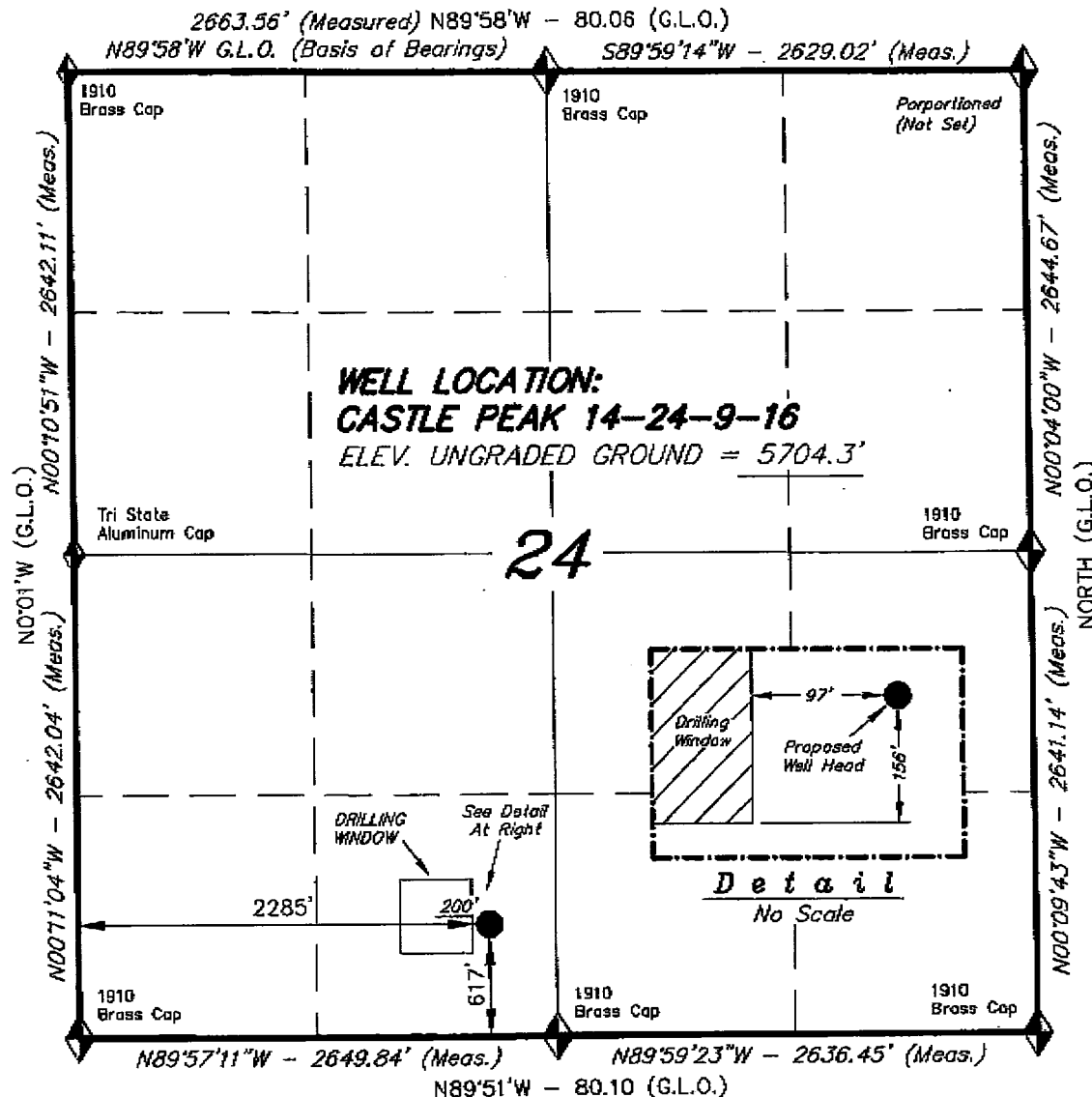


THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 5-12-06	SURVEYED BY: D.P.
DATE DRAWN: 06-27-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

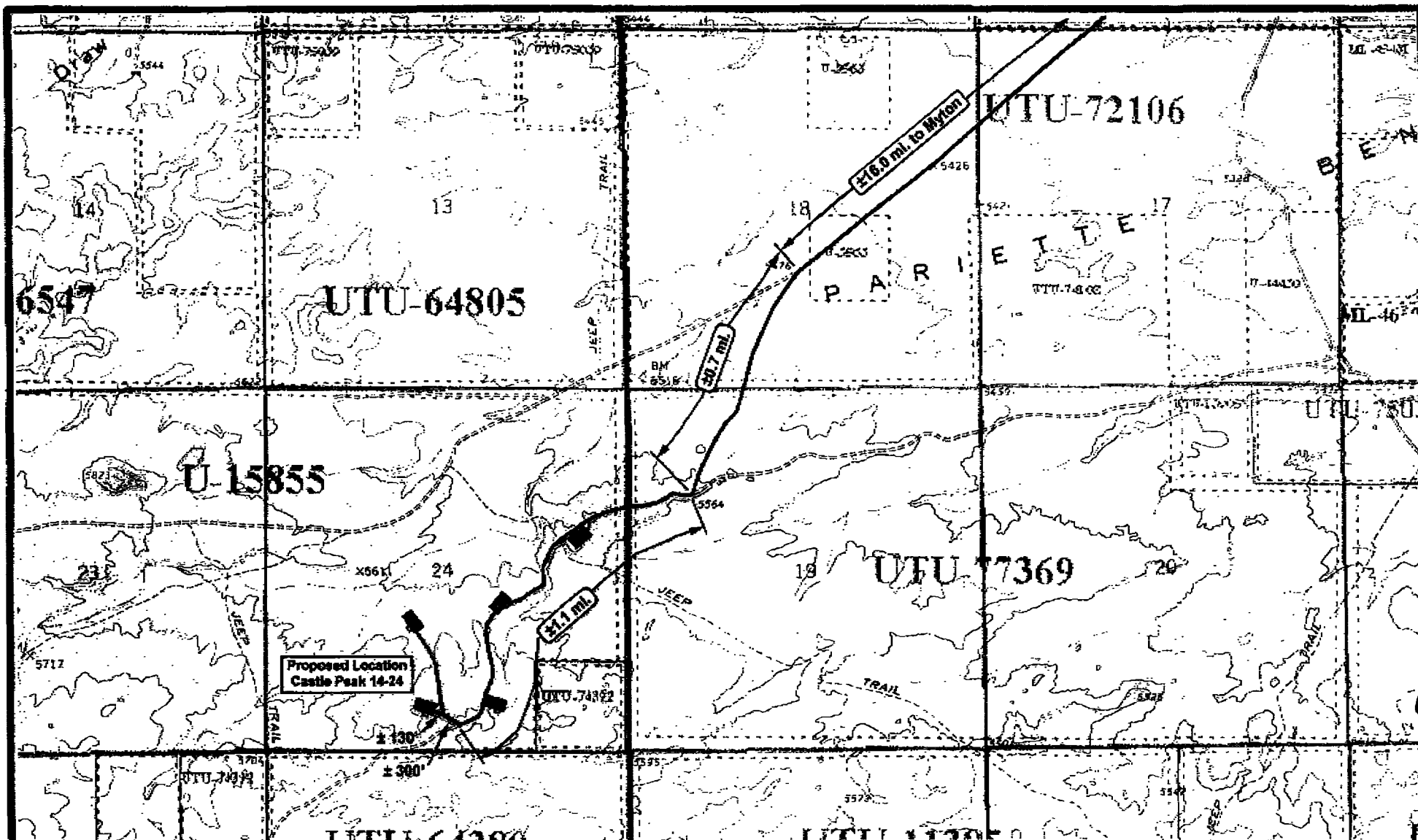


◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**CASTLE PEAK 14-24-9-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 00' 38.98"  
LONGITUDE = 110° 04' 08.56"





NEWFIELD  
Exploration Company

**Castle Peak 14-24-9-16**  
**SEC. 24, T9S, R16E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mhw

DATE: 06-19-2006

**Legend**

Existing Road  
Proposed Access

TOPOGRAPHIC MAP

**"B"**

NEWFIELD PRODUCTION COMPANY  
FEDERAL #14-24-9-16  
SE/SW SECTION 24, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 2145'
Green River	2145'
Wasatch	5835'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 2145' – 5835' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
FEDERAL #14-24-9-16  
SE/SW SECTION 24, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #14-24-9-16 located in the SE 1/4 SW 1/4 Section 24, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.7 miles  $\pm$  to it's junction with an existing road to the southwest; proceed southwesterly - 4.5 miles  $\pm$  to it's junction with the beginning of the proposed access road; proceed northwesterly along the proposed access road - 430'  $\pm$  to the proposed well location.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

All permanent surface equipment will be painted Carlsbad Canyon.  
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-270, 9/7/05. Paleontological Resource Survey prepared by, Wade E. Miller, 9/28/05. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 430' of disturbed area be granted in Lease UTU-15855 to allow for construction of the planned access road. **Refer to Topographic Map "B"**. For the planned access road a width of 60' will be needed for construction purposes with a permanent width of 30' and a running surface of 18'. The construction phase of the planned access road will last approximately (5) days. The planned access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 4,420' of disturbed area be granted in Lease UTU-15855 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 6" gas gathering line, and a buried 3" poly fuel gas line and 30' wide upon completion of the proposed gas lines. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

**Ferruginous Hawk:** Due to this proposed well location's proximity (less than 0.5 mile) to an existing inactive ferruginous hawk nest site, no new construction or surface disturbing activities will be allowed between March 1 and July 31. If the nest remains inactive on May 30<sup>th</sup> (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location after that date. If the nest site becomes active prior to May 30, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes

inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Western Wheatgrass	<i>Pascopyrum Smithii</i>	6 lbs/acre
Galletta Grass	<i>Hilaria Jamesii</i>	6 lbs/acre

**Details of the On-Site Inspection**

The proposed Federal #14-24-9-16 was on-sited on 3/22/06. The following were present; Shon Mckinnon (Newfeild Production), Nate West (Bureau of Land Management), and Brandon McDonald (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

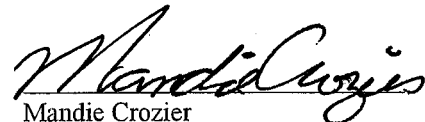
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #14-24-9-16 SE/SW Section 24, Township 9S, Range 16E: Lease UTU-15855 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by US Specialty Insurance #B001832.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

9/15/06

Date

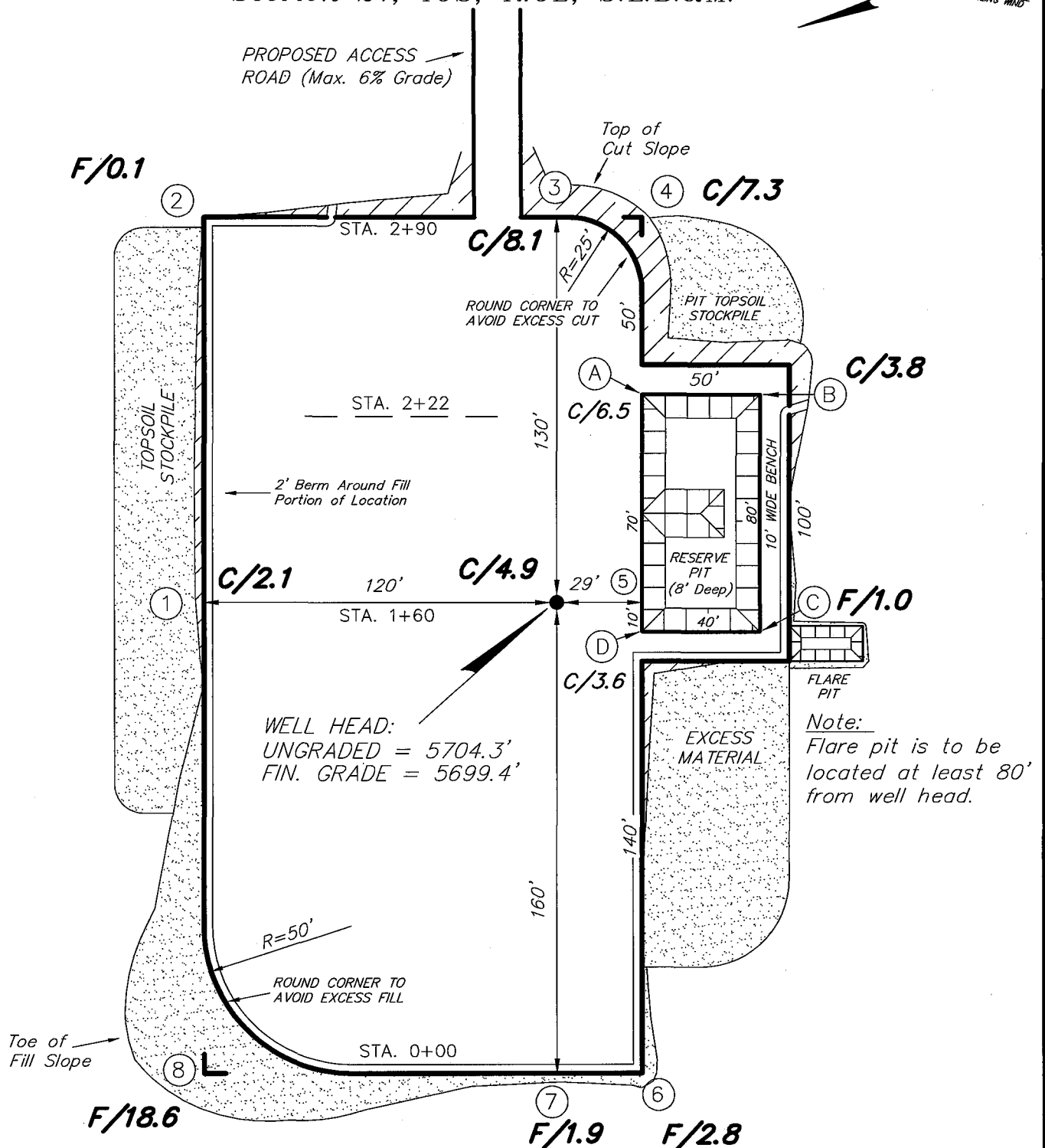
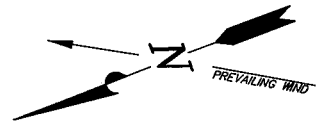


Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

CASTLE PEAK 14-24-9-16

Section 24, T9S, R16E, S.L.B.&M.



## REFERENCE POINTS

180' SOUTHEAST = 5706.2'  
 230' SOUTHEAST = 5706.3'  
 170' NORTHEAST = 5695.7'  
 220' NORTHEAST = 5691.5'

SURVEYED BY: D.P.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 06-27-06

**Tri State**  
 Land Surveying, Inc.

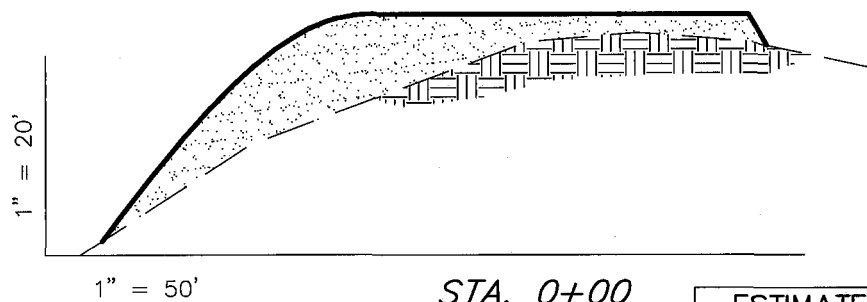
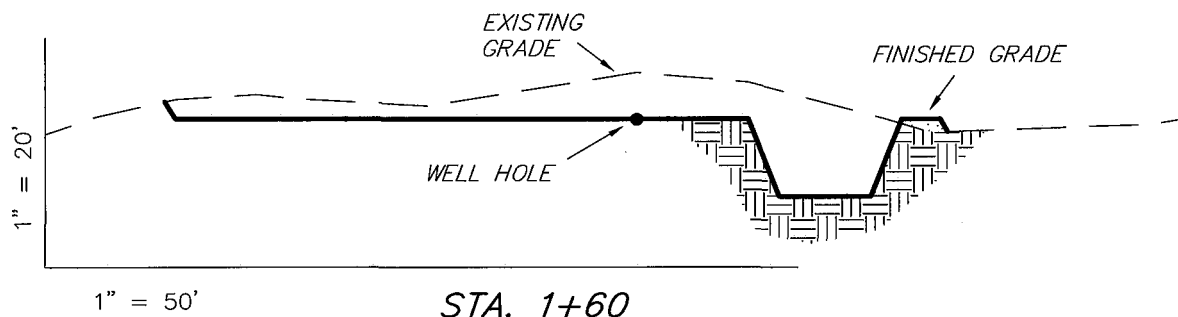
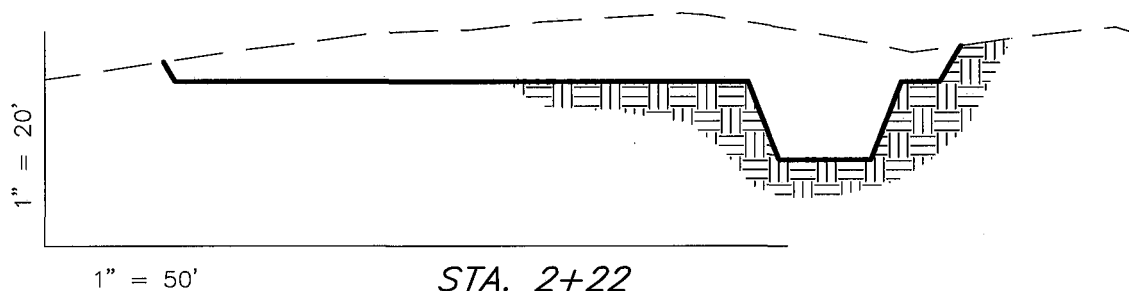
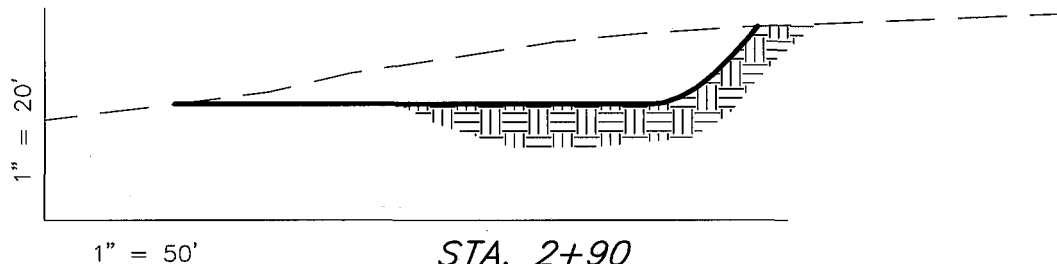
(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

### CASTLE PEAK 14-24-9-16



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

#### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,950	3,950	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	4,590	3,950	1,020	640

SURVEYED BY: D.P.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

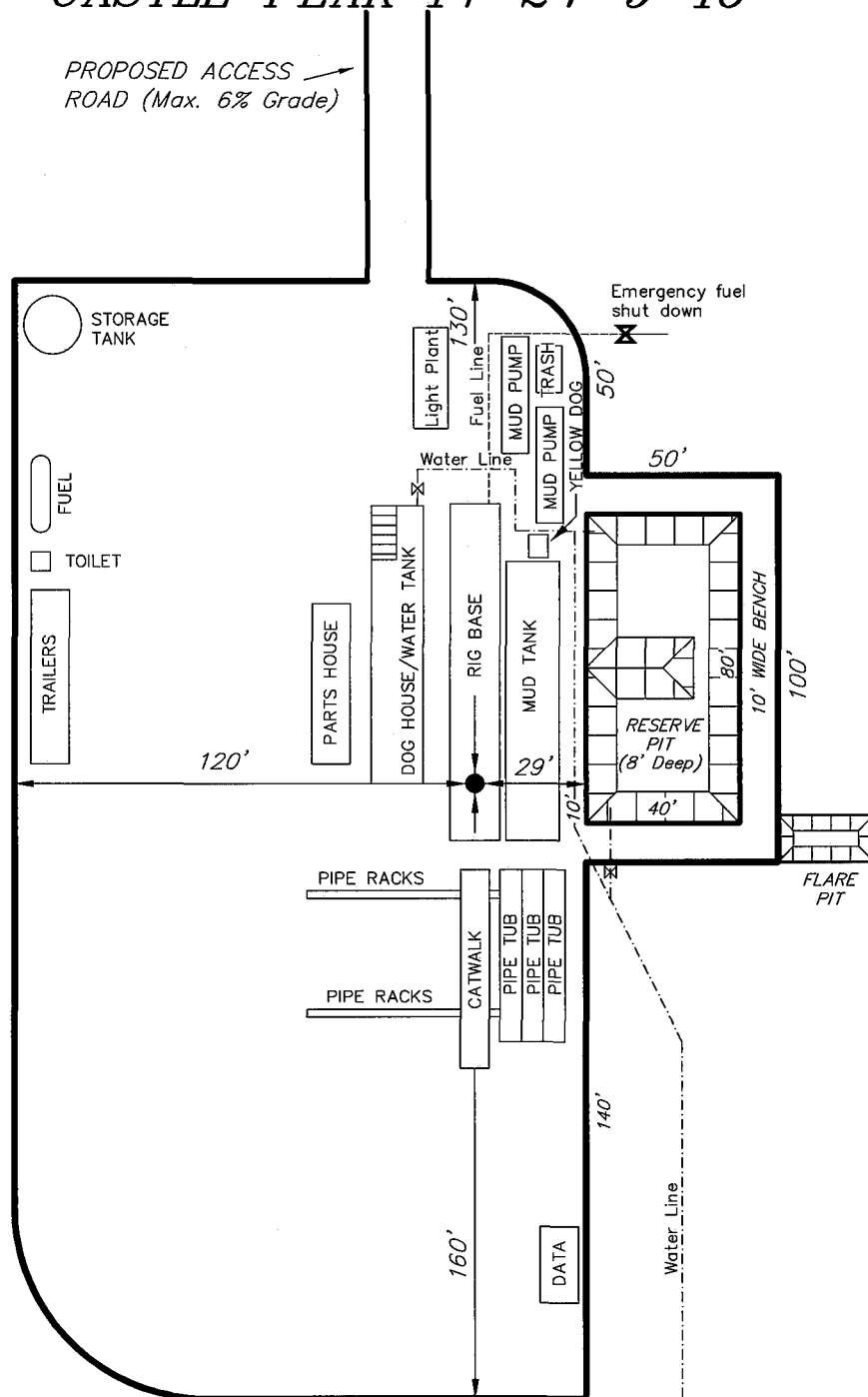
DATE: 06-27-06

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### CASTLE PEAK 14-24-9-16



SURVEYED BY: D.P.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 06-27-06

**Tri State**  
Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078



# Newfield Production Company

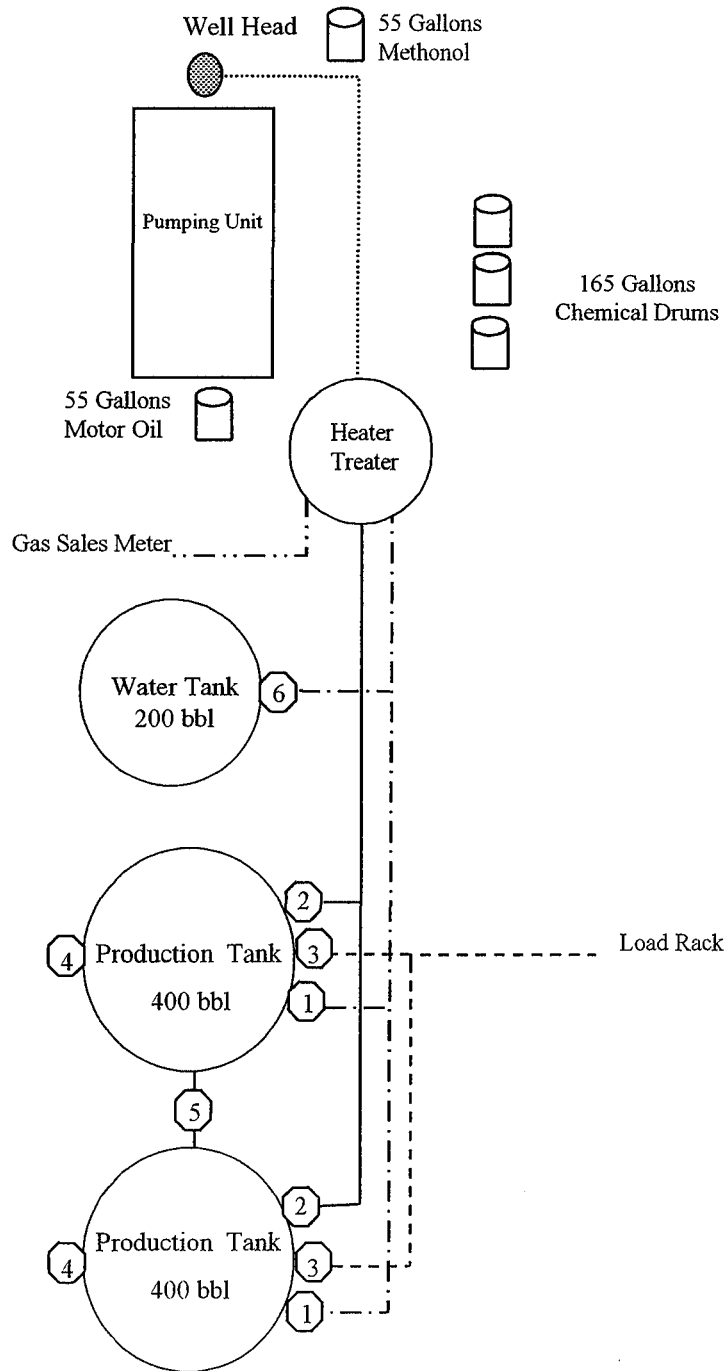
## Proposed Site Facility Diagram

Federal 14-24-9-16

SE/SW Sec. 24, T9S, R16E

Duchesne County, Utah

UTU-15855



### Legend

<b>Emulsion Line</b>	.....
<b>Load Rack</b>	-----
<b>Water Line</b>	-.-.-.-.
<b>Gas Sales</b>	.....
<b>Oil Line</b>	—————

### Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

### Sales Phase:

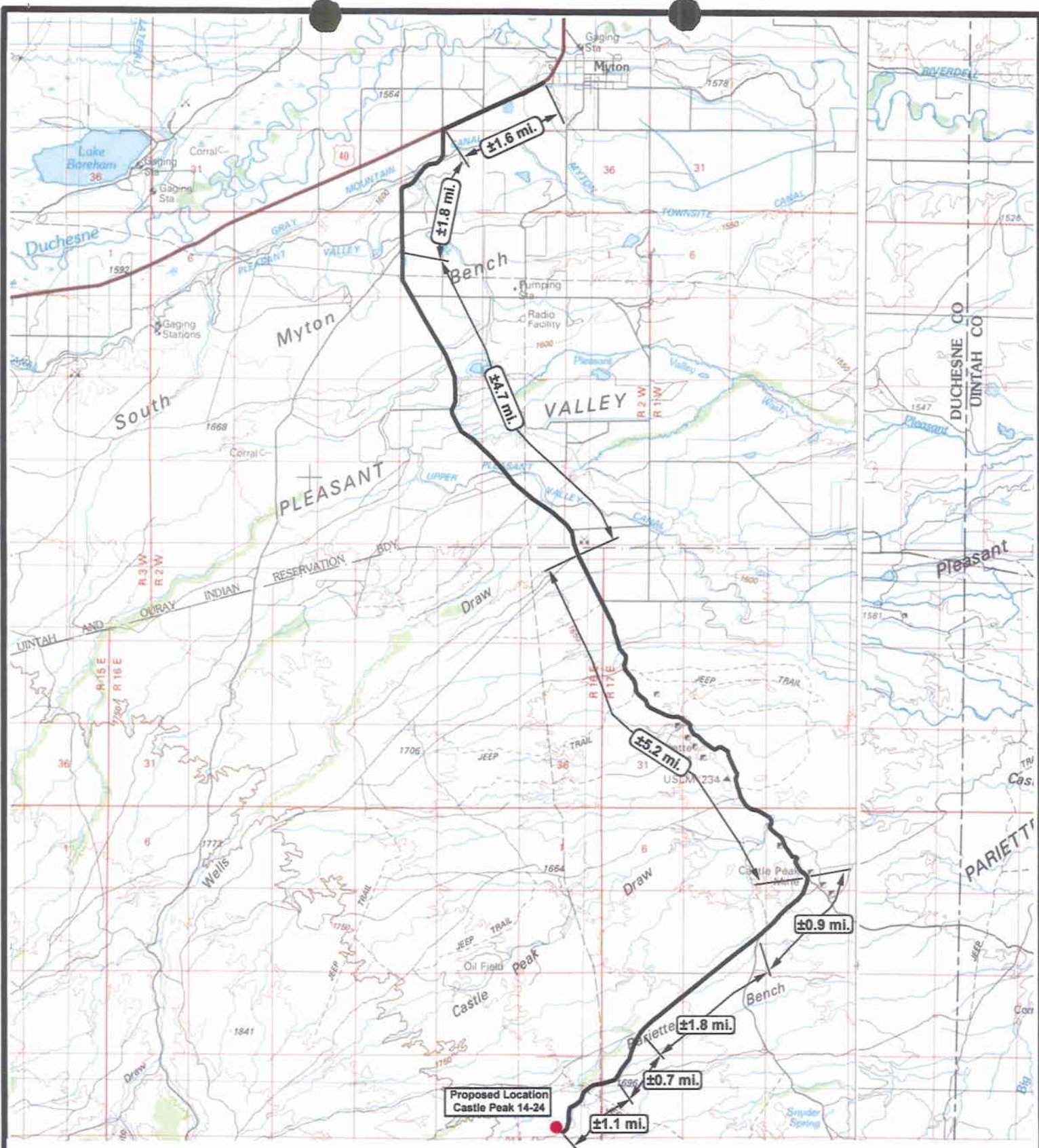
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

### Draining Phase:

- 1) Valves 1 and 6 open

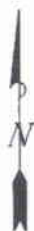
Diked Section





**NEWFIELD**  
Exploration Company

**Castle Peak 14-24-9-16**  
**SEC. 24, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: mw  
DATE: 06-19-2006

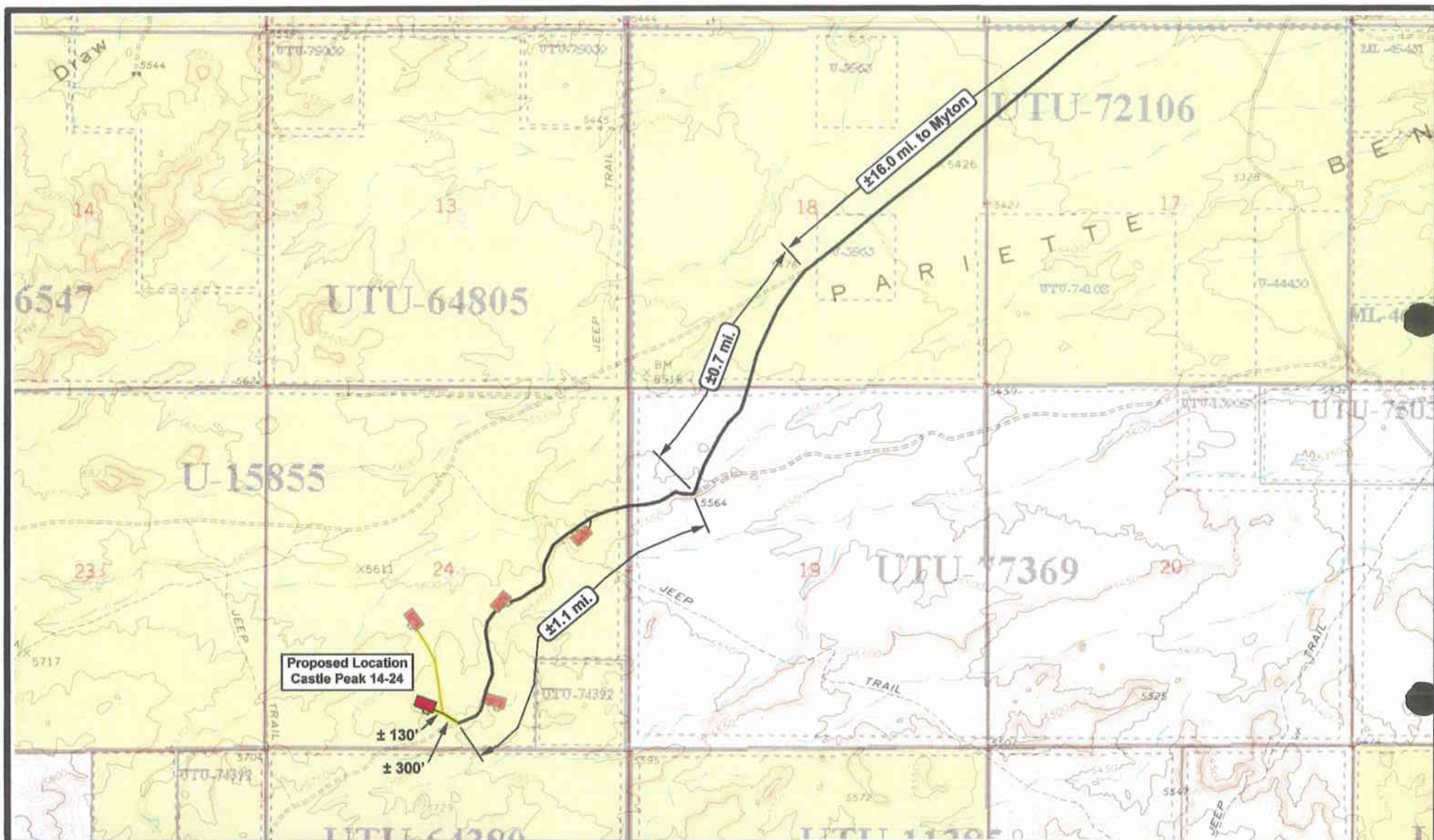
**Legend**

Existing Road  
Proposed Access

TOPOGRAPHIC MAP

**"A"**





**NEWFIELD**  
Exploration Company

**Castle Peak 14-24-9-16**  
**SEC. 24, T9S, R16E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

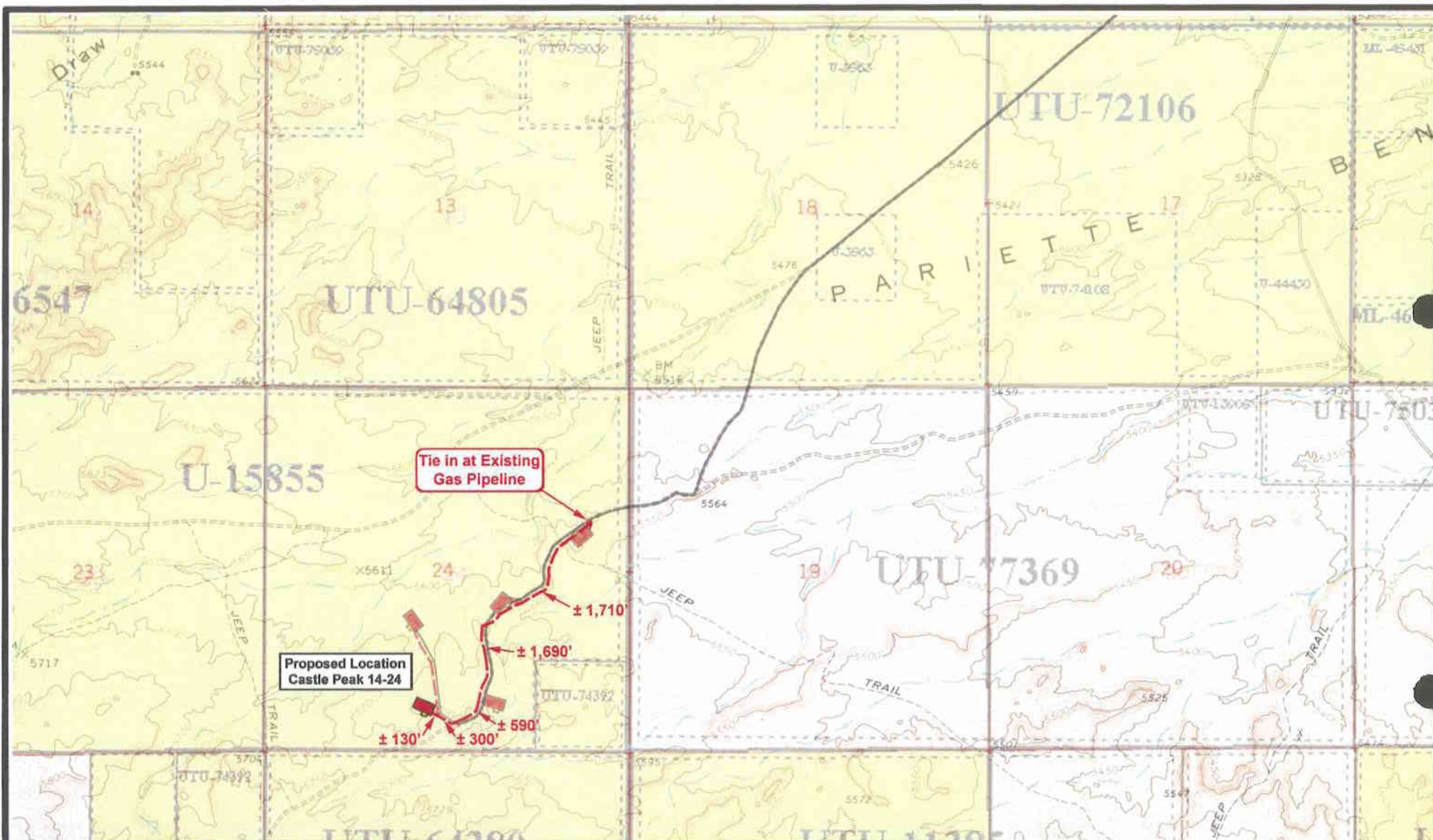
DATE: 06-19-2006

**Legend**  
Existing Road  
Proposed Access

TOPOGRAPHIC MAP

**"B"**





**NEWFIELD**  
Exploration Company

**Castle Peak 14-24-9-16**  
**SEC. 24, T9S, R16E, S.L.B.&M.**



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Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 06-19-2006

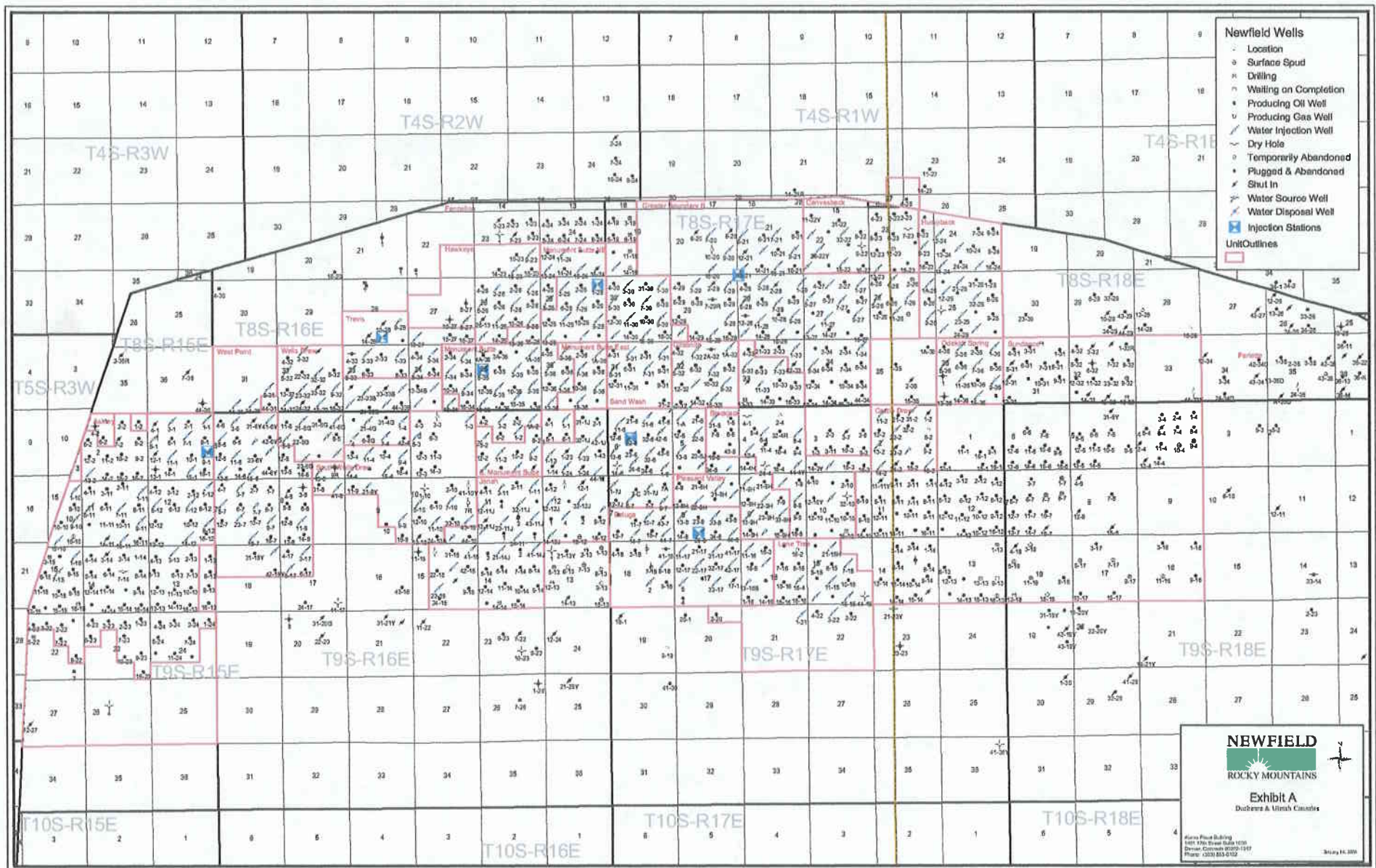
**Legend**

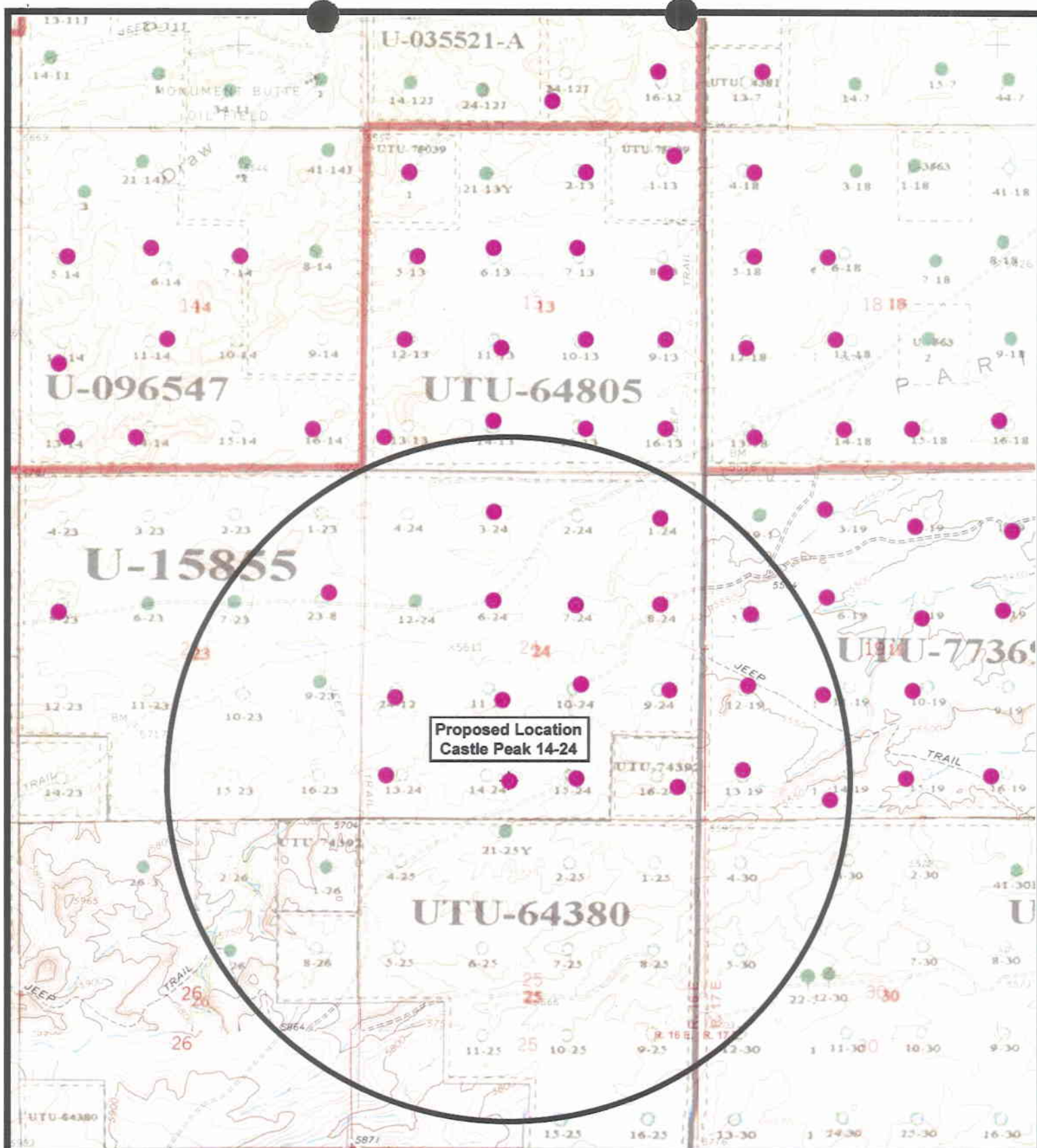
— Roads  
- - - Proposed Gas Line

TOPOGRAPHIC MAP

**"C"**







**NEWFIELD**  
Exploration Company

**Castle Peak 14-24-9-16**  
**SEC. 24, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 06-19-2006

**Legend**

- Location
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

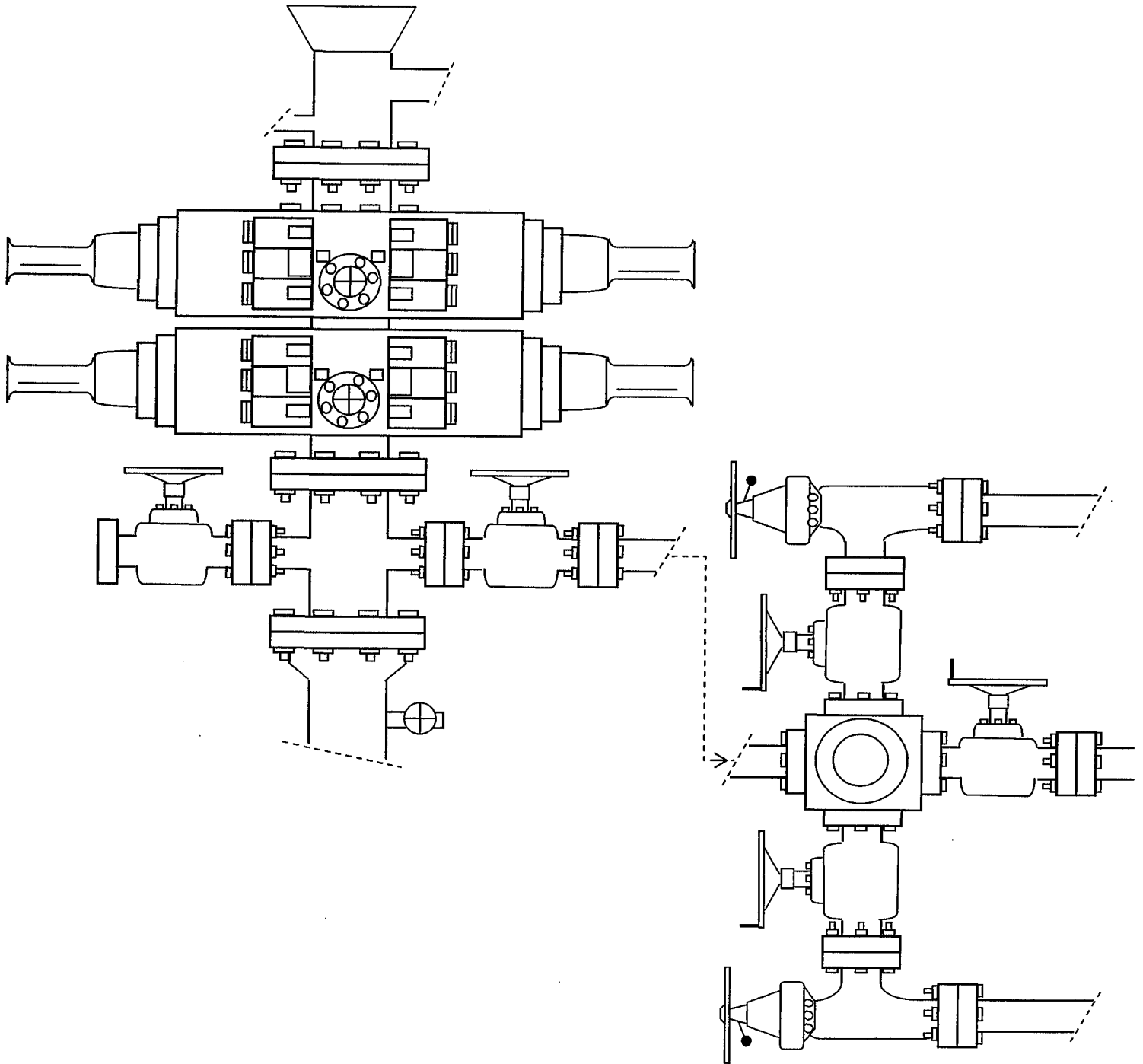


EXHIBIT C



CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCEL  
IN TOWNSHIP 9S, RANGE 16E, SECTION 23 and 24,  
DUCHESNE COUNTY, UTAH

By:

Andre' Jendresen  
and  
Keith Montgomery

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company  
Rt. 3 Box 3630  
Myton, UT 84052

Submitted By:

Keith R. Montgomery  
Montgomery Archaeological Consultants, Inc.  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 05-270

September 7, 2005

United States Department of Interior (FLPMA)  
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0831b



252

**NEWFIELD PRODUCTION COMPANY**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH**

SW 1/4, SE 1/4, and SW 1/4, Section 9 [9,11,12,13 & 14-9-9-16]; Entire Section 22 (excluding NE 1/4, NE 1/4 & NW 1/4, NW 1/4) [2,3,5 through 16-9-9-16]; Entire Section 23 (excluding SE 1/4, NW 1/4, SW 1/4, NE 1/4, NE 1/4 & NW 1/4, SE 1/4) [1 through 5, 8,11 through 16-9-9-16]; Entire Section 24 (excluding SW 1/4, NW 1/4) [1 through 4, 6 through 16-9-9-16] all in Township 9 South, Range 16 East

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
September 28, 2005

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/20/2006

API NO. ASSIGNED: 43-013-33343

WELL NAME: FEDERAL 14-24-9-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SESW 24 090S 160E

SURFACE: 0617 FSL 2285 FWL

BOTTOM: 0617 FSL 2285 FWL

COUNTY: DUCHESNE

LATITUDE: 40.01089 LONGITUDE: -110.0684

UTM SURF EASTINGS: 579508 NORTHINGS: 4429171

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-15855

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. MUNICIPAL )

☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_\_ R649-2-3.

Unit: \_\_\_\_\_

\_\_\_\_ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☒ R649-3-3. Exception

\_\_\_\_ Drilling Unit

Board Cause No: \_\_\_\_\_

Eff Date: \_\_\_\_\_

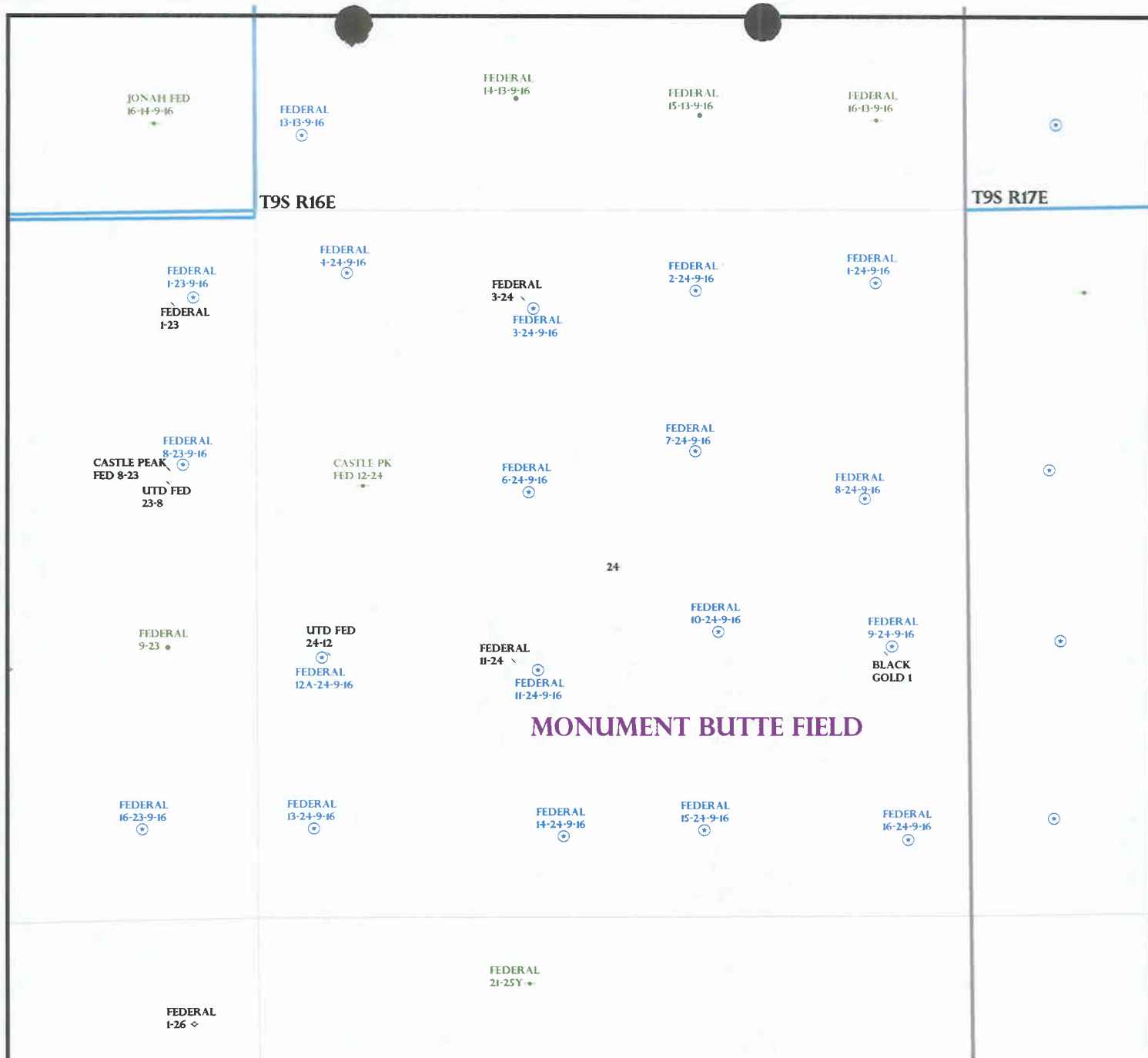
Siting: \_\_\_\_\_

\_\_\_\_ R649-3-11. Directional Drill

COMMENTS: See Separate file

STIPULATIONS: 1 Federal Approval

2 Spacing Strip



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 24 T.9S R. 16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

SPACING: R649-3-3 / EXCEPTION LOCATION

#### Field Status

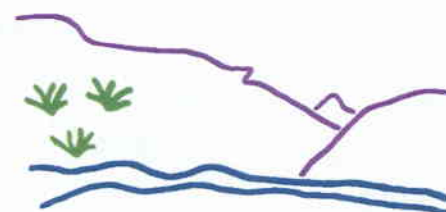
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

#### Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

#### Wells Status

- ✖ GAS INJECTION
- ✖ GAS STORAGE
- ✖ LOCATION ABANDONED
- ⊙ NEW LOCATION
- ✖ PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- ✖ SHUT-IN GAS
- ✖ SHUT-IN OIL
- ✖ TEMP. ABANDONED
- ✖ TEST WELL
- △ WATER INJECTION
- ⊙ WATER SUPPLY
- ⊙ WATER DISPOSAL
- ⊙ DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 21-SEPTEMBER-2006

RECEIVED

SEP 20 2006

BLM VERNAL, UTAH

Form 3160-3  
(September 2001)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-15855

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

N/A

8. Lease Name and Well No.

Federal 14-24-9-16

9. API Well No.

43013.33343

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

SE/SW Sec. 24, T9S R16E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☒ DRILL☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SE/SW 617' FSL 2285' FWL

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*

Approximatley 17.8 miles southwest of Myton, Utah

15. Distance from proposed\*

location to nearest

property or lease line, ft.

(Also to nearest drig. unit line, if any) Approx. 617' f/lease, NA' f/unit

16. No. of Acres in lease

1200.00

17. Spacing Unit dedicated to this well

40 Acres

18. Distance from proposed location\*

to nearest well, drilling, completed,

applied for, on this lease, ft.

Approx. 1058'

19. Proposed Depth

5835'

20. BLM/BIA Bond No. on file

UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5704' GL

22. Approximate date work will start\*

1st Quarter 2007

23. Estimated duration

Approximately seven (7) days from spud to rig release.

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Mandie Crozier

Date

9/15/06

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

Terry Kenner

Date

5-9-2007

Title

Assistant Field Manager  
Lands & Mineral Resources

Office

VERNAL FIELD OFFICE

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD

RECEIVED

MAY 16 2007

DIV. OF OIL, GAS &amp; MINING

07PP0674A

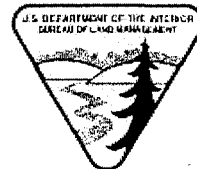


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Newfield Production Company  
**Well No:** Federal 14-24-9-16  
**API No:** 43-013-33343

**Location:** SESW, Sec 24, T9S, R16E  
**Lease No:** UTU-15855  
**Agreement:** N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	435-828-7368
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Melissa Hawk	435-781-4476	435-828-7381
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	

Fax: 435-781-4410

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify NRS/Enviro Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to initiating pressure tests
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days

## **SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)**

### **General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

### **Specific Surface COAs**

- Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
- Lands in this lease have been identified as containing Golden Eagle and Ferruginous Hawk habitats. Modifications to the Surface Use Plan of Operations will be required in order to protect Golden Eagle and Ferruginous Hawk habitats from surface disturbing activities in accordance with Section 6 of the lease term, Endangered Species Act, and 43 CFR 3101.1-2.
- Timing Limitations: (During construction and drilling only).  
From **March 1 through July 15** – in order to protect Ferruginous Hawk nesting season..
- This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed August 24, 2005. If the well has not been spudded by August 24, 2010, a new environmental document will have to be prepared prior to the approval of the APD.
- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- Right of way (ROW) will not be required
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed.

- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The following seed mix (PLS formula) will be used for interim reclamation:

Western Wheatgrass	( <i>Pascopyrum smithii</i> )	6 lbs/acre
Galleta Grass	( <i>Hilaria jamesii</i> )	6 lbs/acre

Rates are set for drill seeding; double the rate if broadcasting.  
Reseeding may be required if initial seeding is not successful.

- The operator will be responsible for treatment and control of invasive and noxious weeds.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed; it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Olive Black.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.



## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- Production casing cement shall be brought up and into the surface.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core

data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.


- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Fax to: 303-893-0103  
Newfield Production Company  
Attn: Marie Liley

**Exception Location:**

Federal 14-24-9-16  
UTU-15855, Duchesne County, Utah

Please be advised that Rust to Gold LLC does not have an objection to the proposed location of the aforementioned well.

By:   
Patrick Warren Manager.  
Print Name and Title

Date: 24 May 07

Fax to: 303-893-0103  
Newfield Production Company  
Attn: Marie Liley

**Exception Location:**  
Federal 14-24-9-16  
UTU-15855, Duchesne County, Utah

Please be advised that Journey Properties, LLC does not have an objection to the proposed location of the aforementioned well.

By: 

Date: 5-31-07

Terry Jennings, Managing Member  
Print Name and Title

Fax to: 303-893-0103  
Newfield Production Company  
Attn: Marie Liley

**Exception Location:**

Federal 14-24-9-16

UTU-15855, Duchesne County, Utah

<sup>El Paso Company, L.P.</sup>  
Please be advised that El Paso ~~Production Oil & Gas Company~~ does not have an  
objection to the proposed location of the aforementioned well.

By: Laura B. Smith

Date: 5/31/07

Laura B. Smith Sr. Staff Landman  
Print Name and Title



June 5, 2007

Ms. Diana Mason  
State of Utah, Division of Oil, Gas & Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Exception Locations: Federal 13-24-9-16 &  
Federal 14-24-9-16  
Duchesne County, Utah  
Lease UTU-15855

Dear Ms. Mason:

Pursuant to Rule R649-3-3 of the Oil & Gas Rules and Regulations of the State of Utah, Newfield Production Company, Inc. hereby requests exception locations for the drilling of the captioned wells. Rule R649-3-2 requires a well to be located in the center of a forty (40) acre quarter-quarter section, or a substantially equivalent lot or tract, with a tolerance of two hundred (200) feet in any direction from the center.

1) Fed 13-24-9-16; (SWSW Sec 24-T9S-R16E, UTU-15855). This location is found 39' west of the drilling window tolerance. The attached plat depicts the proposed drillsite location and the deviation from the drilling window, in accordance with Rule R649-3-2. The exception location is requested due to terrain.

2) Fed 14-24-9-16; (SESW Sec 24-T9S-R16E, UTU-15855). This location is found 97' east of the drilling window tolerance. The attached plat depicts the proposed drillsite location and the deviation from the drilling window, in accordance with Rule R649-3-2. The exception location is requested due to the terrain.

Please note these locations are completely within Federal lease UTU-15855. Location one has the same interest in the adjacent land, the SESE Sec 23 T9S-R16E lease UTU-15855, which falls within a four hundred sixty foot (460') radius of the proposed location. Lands for the Federal 13-24-9-16 are owned by Newfield Production Company, Beehive Oil LLC and El Paso E&P Company, LP. Lands for the Federal 14-24-9-16 are owned by Newfield Production Company, El Paso E&P Company, LP, Rust to Gold LLC and Journey Properties LLC. We have contacted these owners and their consent to these locations is attached.

If you have any questions or need additional information please contact me at (303)-382-4449.  
Thank you for your assistance in this matter.

Sincerely,

NEWFIELD PRODUCTION COMPANY

*Marie Liley*  
Marie Liley  
Land Associate

**RECEIVED**

**JUN 08 2007**

**DIV. OF OIL, GAS & MINING**





JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

June 12, 2007

Newfield Production Company  
Route 3 Box 3630  
Myton, UT 84052

Re: Federal 14-24-9-16 Well, 617' FSL, 2285' FWL, SE SW, Sec. 24, T. 9 South, R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33343.

Sincerely,

Gil Hunt  
Associate Director

er  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal Office



Operator: Newfield Production Company  
Well Name & Number Federal 14-24-9-16  
API Number: 43-013-33343  
Lease: UTU-15855

Location: SE SW                      Sec. 24            T. 9 South                      R. 16 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281    (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

617 FSL 2285 FWL

SESW Section 24 T9S R16E

5. Lease Serial No.

UTU-15855

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

Federal #24-9-16

9. API Well No.

4301333343

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 1/03/08 MIRU NDSI Rig # 3. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 280'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5775'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 133 jt's of 5.5 J-55, 15.5# csgn. Set @ 5758.33'/KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. The 400 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 10 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 100,000 #'s tension. Release rig @ 6:00 AM on 1/08/08.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Title

Drilling Foreman

Signature

Date

01/09/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**

**JAN 14 2008**

**DIV. OF OIL, GAS & MINING**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5758.33

Flt cllr @ 5701'

LAST CASING 8 5/8" SET @ 316.01

OPERATOR Newfield Production Company

DATUM 12

WELL Federal 4-24-9-16

DATUM TO CUT OFF CASING 12

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE \_\_\_\_\_

CONTRACTOR & RIG # NDSI Rig # 3

TD DRILLER 5775' LOGGER 5768'

HOLE SIZE 7 7/8"

## LOG OF CASING STRING:

LOG OF CASING STRING								
PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt						14
		Short jt @ 3932'/19.72'						
	5 1/2"	ETC LT & C casing		15.5#	J-55	8rd	A	5701.67
								0.6
1	5 1/2"	ETC LT&C csg		15.5#	J-55	8rd	A	43.41
		GUIDE shoe				8rd	A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING LESS CUT OFF PIECE PLUS DATUM TO T/CUT OFF CSG CASING SET DEPTH				5760.33
TOTAL LENGTH OF STRING		5760.33	133					14
LESS NON CSG. ITEMS		15.25						12
PLUS FULL JTS. LEFT OUT		473.07	11					5758.33
TOTAL		6218.15	144	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		6218.15	144					
TIMING		1ST STAGE	2nd STAGE					
BEGIN RUN CSG.		1/7/2008	8:00 PM	GOOD CIRC THRU JOB				YES
CSG. IN HOLE		1/8/2008	12:45 AM	Bbls CMT CIRC TO SURFACE				10
BEGIN CIRC		1/8/2008	1:00 AM	RECIPROCATED PIPE FOR				THRU FT STROKE
BEGIN PUMP CMT		1/8/2008	2:52 AM	DID BACK PRES. VALVE HOLD ?				YES
BEGIN DSPL. CMT		1/8/2008	3:38 AM	BUMPED PLUG TO				1800 PSI
PLUG DOWN		1/8/2008	4:02 AM					
CEMENT USED				CEMENT COMPANY- B. J.				
STAGE	# SX			CEMENT TYPE & ADDITIVES				
1	300	Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake						
		mixed @ 11.0 ppg W / 3.43 cf/sk yield						
2	400	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD						
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.								

COMPANY REPRESENTATIVE

Jim Smith

DATE 1/7/2008

## DIVISION OF OIL, GAS AND MINING

### SPUDDING INFORMATION

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 14-24-9-16

Api No: 43-013-33343 Lease Type: FEDERAL

Section 24 Township 09S Range 16E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 21

### SPUDDED:

Date 01/18/08

Time 2:30 PM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by JIM

Telephone # \_\_\_\_\_

Date 01/22/08 Signed CHD

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
<u>B</u> <u>A</u>	<u>99999</u>	<u>12417</u>	<u>4301333311</u>	<u>LONETREE FEDERAL 14-22-9-17</u>	<u>SESW</u>	<u>22</u>	<u>9S</u>	<u>17E</u>	<u>DUCHESNE</u>	<u>1/19/2008</u>	<u>1/24/08</u>
WELL 1 COMMENTS: <u>GRRV</u>											
<u>B</u> <u>A</u>	<u>99999</u>	<u>12417</u>	<u>4301333312</u>	<u>LONETREE FEDERAL 16-22-9-17</u>	<u>SWSE</u>	<u>22</u>	<u>9S</u>	<u>17E</u>	<u>DUCHESNE</u>	<u>1/15/2008</u>	<u>1/24/08</u>
<u>GRRV</u>											
<u>A</u>	<u>99999</u>	<u>16627</u>	<u>4301332960</u>	<u>FEDERAL 5-23-9-16</u>	<u>SWNW</u>	<u>23</u>	<u>9S</u>	<u>16E</u>	<u>DUCHESNE</u>	<u>1/17/2008</u>	<u>1/24/08</u>
<u>GRRV</u>											
<u>A</u>	<u>99999</u>	<u>16628</u>	<u>4301333178</u>	<u>FEDERAL 11-23-9-16</u>	<u>NESW</u>	<u>23</u>	<u>9S</u>	<u>16E</u>	<u>DUCHESNE</u>	<u>1/15/2008</u>	<u>1/24/08</u>
<u>GRRV</u>											
<u>A</u>	<u>99999</u>	<u>16629</u>	<u>4301333343</u>	<u>FEDERAL 14-24-9-16</u>	<u>SESW</u>	<u>24</u>	<u>9S</u>	<u>16E</u>	<u>DUCHESNE</u>	<u>1/18/2008</u>	<u>1/24/08</u>
WELL 5 COMMENTS: <u>GRRV</u>											
WELL 9 COMMENTS: <u> </u>											

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - 1 well to existing entity (group or well well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected

RECEIVED

JAN 23 2008

DIV. OF OIL, GAS & MINING

Tammi Lee  
Signature

Tammi Lee

Production Clerk

01/23/08

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

UTU-15855

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

Federal 24-9-16

9. API Well No.

4301333343

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

617 FSL 2285 FWL

SESW Section 24, T9S R16E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

I hereby certify that the foregoing is true and correct (Printed/Typed)

Mandie Crozier

Signature

Title

Regulatory Specialist

Date

02/28/2008

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED

FEB 29 2008

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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UTU-15855

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7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

Federal 24-9-16

9. API Well No.

4301333343

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MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

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☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

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Myton, UT 84052

3b. Phone (include area code)

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617 FSL 2285 FWL

SESW Section 24, T9S R16E

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TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

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Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

I hereby certify that the foregoing is true and correct (Printed/Typed)

Title

Regulatory Specialist

Signature

Date

02/28/2008

Approved by

Title

Date

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(Instructions on reverse)

RECEIVED

FEB 29 2008

DIV. OF OIL, GAS & MINING



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-15855
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 617 FSL 2285 FWL		8. WELL NAME and NUMBER: Federal 18-24-9-16
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SESW, 24, T9S, R16E		9. API NUMBER: 4301333343
		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  02/26/2008			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above mentioned well went on production 2/26/08. See attached daily activity report.

NAME (PLEASE PRINT) Tammi Lee	TITLE Production Clerk
SIGNATURE 	DATE 02/28/2008

(This space for State use only)

**RECEIVED**

**MAR 03 2008**

DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**FEDERAL(4-24-9-16****12/1/2007 To 4/29/2008****2/16/2008 Day: 1****Completion**

Rigless on 2/15/2008 - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5672' & cement top @ 84'. Perforate stage #1, CP1 sds @ 5350-60' w/ 3-1/8" Slick Guns (19 gram, .49"EH. 120°) w/ 4 spf for total of 40 shots. 110 BWTR. SWIFN.

**2/22/2008 Day: 2****Completion**

Rigless on 2/21/2008 - Stage #1 CP1 sds. RU BJ Services. 35 psi on well. Frac CP1 sds w/ 19,538#'s of 20/40 sand in 318 bbls of Lightning 17 fluid. Broke @ 3150 psi. Treated w/ ave pressure of 2319 psi w/ ave rate of 23.0 BPM. ISIP 2169 psi. Leave pressure on well. 428 BWTR Stage #2 LODC sds RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 6' perf gun. Set plug @ 5170'. Perforate LODC sds @ 5062-68' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RU BJ Services. 1624 psi on well. Perfs would not break. Duimp bail acid on perfs. RU BJ Services. 1468 psi on well. Frac LODC sds w/ 14,448#'s of 20/40 sand in 267 bbls of Lightning 17 fluid. Broke @ 3522 psi. Treated w/ ave pressure of 2913 psi @ ave rate of 23.1 BPM. ISIP 3354 psi. Leave pressure on well. 695 BWTR. Stage #3 A1 & A3 sds RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 7', 11' perf guns. Set plug @ 4990'. Perforate A1 sds @ 4893-4900' & A3 sds @ 4936-47' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 72 shots. RU BJ Services. 1668 psi on well. Perfs would not break. Dump bail acid on perfs. RU BJ Services. 1624 psi on well. Perfs would not break. Open well to pit for cleanup. Well flowed for 30 min. & died. RD BJ Services & wireline. SWIFN.

**2/23/2008 Day: 3****Completion**

Western #4 on 2/22/2008 - Thaw out well. Bleed off well. ND Cameron BOP. NU Schafer BOP. RIH w/ 2 7/8" notched collar & new 2 7/8" tbg. from pipe rack (tallying & drifting). Tag sand @ 4900'. C/O to CBP @ 4990'. Circulate well clean w/ KCL water. POOH w/ tbg. ND Schafer BOP. NU Cameron BOP. SWIFN.

**2/24/2008 Day: 4****Completion**

Western #4 on 2/23/2008 - Stage #3 A1 & A3 sds. RU BJ Services. 226 psi on well. Frac A1 & A3 sds w/ 79,356#'s of 20/40 sand in 628 bbls of Lightning 17 fluid. Broke @ 2954 psi. Treated w/ ave pressure of 2038 psi w/ ave rate of 23.1 BPM. ISIP 2069 psi. Leave pressure on well. 1323 BWTR. Stage #4 D1 sds RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 10' perf gun. Set plug @ 4570'. Perforate D1 sds @ 4481-91' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 40 shots. RU BJ Services. 1919 psi on well. Perfs would not break. Duimp bail acid on perfs. RU BJ Services. 1236 psi on well. Frac D1 sds w/ 54,904#'s of 20/40 sand in 482 bbls of Lightning 17 fluid. Broke @ 3972 psi. Treated w/ ave pressure of 2070 psi @ ave rate of 23.1 BPM. ISIP 2153 psi. Leave pressure on well. 1805 BWTR. Stage #5 GB6 sds RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 14' perf gun. Set plug @ 4130'. Perforate GB6 sds @ 4018-32' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 56 shots. RU BJ Services. 2030 psi on well. Perfs would not break. Duimp bail acid on perfs. RU BJ Services. 1805 psi on well. Frac GB6 sds w/ 74,458#'s of 20/40 sand in 594 bbls of Lightning 17 fluid. Broke @ 4104 psi. Treated w/ ave pressure of 2125 psi @ ave rate of 23.1 BPM. ISIP 1788 psi. Open well to pit for immediate flowback @ approx. 1 bpm. Well flowed for 5 hrs. & died. Recovered 280 bbls. SWIFN.

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**2/26/2008 Day: 5****Completion**

Western #4 on 2/25/2008 - Hot oiler steamed & thawed out BOP & WH. 150 psi on csg. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" chomp bit, bit sub & 2 7/8" J-55 tbg. Tagged sand @ 4118'. RU Nabors power swivel & pump & lines. Circulate sand & drill out plugs as follows: Sand @ 4118', Plug @ 4130' (Drilled up in 14 mins). Sand @ 4539', Plug @ 4570' (Drilled up in 13 mins). Sand @ 4892', Plug @ 4990' (Drilled up in 21 mins). Sand @ 5150', Plug @ 5170' (Drilled up 16 mins). Sand 5557'. C/O to PBTD @ 5705'. Circulate well clean. LD 2 jts of tbg. EOT @ 5617'. RU swab equipment. IFL @ surface. Made 6 runs. Rec 70 BTF. FFL @ 1200'. SIWFN w/ 2144 BWTR.

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**2/27/2008 Day: 6****Completion**

Western #4 on 2/26/2008 - 50 psi on tbg, 0 psi on csg. Continue swabbing. IFL @ 300', Made 14 runs. Rec 155 BTF. No sand, Trace oil. FFL @ 900'. TIH w/ tbg, Tagged @ PBTD (5705'). Circulate well clean. LD extra tbg. TOH w/ tbg. LD bit & bit sub. TIH w/ production tbg as follows: NC, 2 jts, SN, 2 jt, TA, 169 jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 16,000#'s tension @ 5310', SN @ 5376', EOT @ 5440'. NU WH. Flushed tbg w/ 60 BW. PU & prime up rod pump. PU & RIH w/ "A" grade rods as follows: 2 1/2" X 1 1/2" X 19 1/2' RHAC "CDI", 6- 1 1/2" wt bars, 20- 3/4" guided rods, 89- 3/4" plain rods, 99- 3/4" guided rods, 1-2', 1-4', 1-6' X 3/4" ponys, 1 1/2" X 26' Polish rod. Hang head, Space out rods. Fill tbg w/ 6 bbls of wtr. Pressure test to 800 psi. RDMOSU. POP @ 6:30 PM w/ 102" SL @ 5 SPM. 2109 BWTR. FINAL REPORT!!!

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Pertinent Files: [Go to File List](#)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

617 FSL 2285 FWL

SESW Section 24 T9S R16E

5. Lease Serial No.

UTU-15855

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

Federal 14-24-9-16

9. API Well No.

4301333343

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Variance
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production Company is requesting a variance from Onshore Order 43 CFR Part 3160 Section 4 requiring production tanks to be equipped with Enardo or equivalent vent line valves. Newfield operates wells that produce from the Green River formation, which are relatively low gas producers (20 mcfpd). The majority of the wells are equipped with a three phase separator to maximize gas separation and sales.

Newfield is requesting a variance for safety reasons. Crude oil production tanks equipped with back pressure devices will emit a surge of gas when the thief hatches are open. While gauging tanks, lease operators will be subject to breathing toxic gases as well as risk a fire hazard, under optimum conditions

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Mandie Crozier

Title

Regulatory Specialist

Date

03/18/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Newfield is requesting a variance from Onshore Order 43 CFR Part 3160 Section 4 requiring production tanks to be equipped with Enardo or equivalent vent line valves. Newfield operates wells that produce from the Green River formation, which are relatively low gas producers (20 mcfpd). The majority of the wells are equipped with a three phase separator to maximize gas separation and sales.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**

**MAR 19 2008**

**DIV. OF OIL, GAS & MINING**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

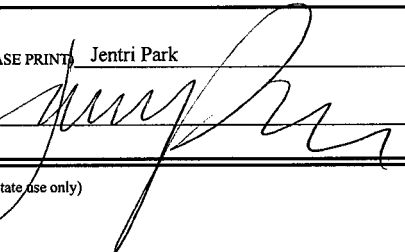
1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-15855
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 617 FSL 2285 FWL		8. WELL NAME and NUMBER: Federal 14-24-9-16
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SESW, 24, T9S, R16E		9. API NUMBER: 4301333343
COUNTY: DUCHESNE		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
STATE: UT		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 04/10/2008			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 03/26/08, attached is a daily completion status report.

NAME (PLEASE PRINT) <u>Jentri Park</u>	TITLE <u>Production Clerk</u>
SIGNATURE 	DATE <u>04/10/2008</u>

(This space for State use only)

**RECEIVED**

**APR 14 2008**

**DIV. OF OIL, GAS & MINING**

**Daily Activity Report**

Format For Sundry

**FEDERAL 14-24-9-16****1/1/2008 To 5/30/2008****3/11/2008 Day: 1****Completion**

Rigless on 3/10/2008 - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5624' & cement top @ 144'. Perforate stage #1, CP5 sds @ 5547-67' w/ 3-1/8" Slick Guns (19 gram, .49"EH. 120°) w/ 4 spf for total of 80 shots. 136 BWTR. SWIFN.

**3/17/2008 Day: 2****Completion**

Rigless on 3/16/2008 - RU BJ Services "Ram Head" frac flange. RU BJ & frac CP5 sds, stage #1 down casing w/ 90,237#'s of 20/40 sand in 711 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3508 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 1817 w/ ave rate of 23.4 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2069. 847 bbls EWTR. Leave pressure on well. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6k) Composite flow through frac plug & 8' perf gun. Set plug @ 5460'. Perforate CP2 sds @ 5353-61' w/ 3-1/8" Slick Guns (23 gram, .43"HE, 90°) w/ 4 spf for total of 32 shots. RU BJ & frac stage #2 w/ 14,734#'s of 20/40 sand in 284 bbls of Lightning 17 frac fluid. Open well w/ 1640 psi on casing. Perfs broke down @ 4146 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 2150 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1989. 1131 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 7' perf gun. Set plug @ 5300'. Perforate LODC sds @ 5226-33' w/ 4 spf for total of 28 shots. RU BJ & frac stage #3 w/ 15,212#'s of 20/40 sand in 283 bbls of Lightning 17 frac fluid. Open well w/ 1685 psi on casing. Perfs broke down @ 3890 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 2379 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2268. 1414 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 9' perf gun. Set plug @ 4950'. Perforate A1 sds @ 4837-46' w/ 4 spf for total of 36 shots. RU BJ & perfs won't break down. RIH & spot 30 gals of 15% HCL acid on perfs in 3 runs (10' of sand). Decision made to leave stage behind. RIH w/ frac plug & 15' perf gun. Set plug @ 4700'. Perforate C sds @ 4576-91' w/ 4 spf for total of 60 shots. RU BJ & frac stage #5 w/ 70,586#'s of 20/40 sand in 574 bbls of Lightning 17 frac fluid. Open well w/ 159 psi on casing. Perfs broke down @ 2389 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 2299 w/ ave rate of 23.3 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2299. 1988 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 10' perf gun. Set plug @ 4100'. Perforate GB6 sds @ 3988-98' & GB4 sds @ 3957-70', 3900-15' w/ 4 spf for total of 152 shots in 2 runs. RU BJ & frac stage #6 w/ 121,107#'s of 20/40 sand in 849 bbls of Lightning 17 frac fluid. Open well w/ 1590 psi on casing. Perfs broke down @ 2213 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 2299 w/ ave rate of 26 bpm w/ 8 ppg of sand. ISIP was 1794. 2837 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 7 hours & died w/ 500 bbls rec'd. SIFN.

**3/18/2008 Day: 3****Completion**

Leed #731 on 3/17/2008 - MIRUSU. Thaw well out. Open well w/ 20 psi on casing. RD Cameron BOP's & frac head. Instal 3K production head & Schaefer BOP's. RU 4-

3/4" Chomp bit & bit sub. Tally & pick up new J-55, 2-7/8", 6.5# tbg & TIH w/ 132 jts to tag plug @ 4100'. SIFN.

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3/19/2008 Day: 4

Completion

Leed #731 on 3/18/2008 - Thaw well out. Open well w/ 0 psi on casing. RU swivel, pump & tanks. Drlg out plug #1. TIH w/ tbg to tag plug @ 4700'. Drlg out plug #2. TIH w/ tbg to tag sand @ 4718'. C/O to plug @ 4950'. Drlg out plug #3. TIH w/ tbg to tag plug @ 5300'. Drlg out plug #4. TIH w/ tbg to tag plug @ 5460'. Drlg out plug #5. TIH w/ tbg to tag sand @ 5500'. C/O to PBTD @ 5701'. SIFN.

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3/20/2008 Day: 5

Completion

Leed #731 on 3/19/2008 - Open well w/ 0 psi on casing. LD 2 jts tbg. EOT @ 5638'. RU swab & made 5 runs. IFL was surface. Fluid level @ 1400'. Couldn't get in hole due to sand. Circulate 40 bbls. RU swab & made 5 runs & hit sand again @ 2400'. Circulate 40 bbls water Continue to swab w/ 9 runs. FFL was 3000'. Rec'd 140 bbls of fluid. Last run showed trace of oil & no sand. SIFN.

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3/21/2008 Day: 6

Completion

Leed #731 on 3/20/2008 - Open well w/ 25 psi on casing. TIH w/ tbg to tag sand @ 5660' (new sand 41'). Circulate clean to PBTD @ 5701'. TOOH w/ tbg. LD bit & bit sub. TIH w/ NC, 1 jts tbg, SN, 1 jt tbg, TA (new CDI w/ 45,000# shear), 175 jts tbg. RD BOP's. Set TA w/ 16,000#'s tension @ 5501'. Flush tbg w/ 60 bbls water. SIFN.

---

3/22/2008 Day: 7

Completion

Leed #731 on 3/21/2008 - Open well w/ 0 psi on casing. Pick up & prime pump. TIH w/ 2-1/2" x 1-1/2" x 16' x 18' RHAC new CDI pump w/ 154"SL, 6- 1-1/2" weight rods, 20- 3/4" guided rods, 86- 3/4" plain rods, 100- 3/4" guided rods, 4', 6', 8' X 3/4" pony rod, 1-1/2" x 26' polished rod. Space pump. RDMOSU. Left well down due to surface equipment. SIFN.

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3/27/2008 Day: 8

Completion

Leed #731 on 3/26/2008 - Surface equipment repairs complete. 86" SL @ 5 SPM  
PLACED WELL ON PRODUCTION FINAL REPORT

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Pertinent Files: Go to File List

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Newfield Exploration Company

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface 617' FSL & 2285' FWL (SE/SW) Sec. 24, T9S, R16E  
At top prod. Interval reported below

At total depth

14. API NO. 43-013-33343 DATE ISSUED 06/12/07

15. DATE SPUDDED 1/18/08 16. DATE T.D. REACHED 02/22/08 17. DATE COMPL. (Ready to prod.) 03/24/08 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5704' GL 5716' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5750' 21. PLUG BACK T.D., MD & TVD 5701' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY -----> ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\* Green River 3900'-5567' 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

27. WAS WELL CORED No

CASING RECORD (Report all strings set in well)					AMOUNT PULLED
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	
8-5/8" - J-55	24#	323'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5745'	7-7/8"	300 sx Premlite II and 400 sx 50/50 Poz	

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5569'	TA @ 5502'

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
(CP5) 5547'-5567'	.49"	4/80	5547'-5567'	Frac w/ 90,237# 20/40 sand in 711 bbls fluid	
(CP2) 5353'-5361'	.43"	4/32	5353'-5361'	Frac w/ 14,734# 2040 sand in 284 bbls fluid	
(LODC) 5226'-5233'	.43"	4/28	5226'-5233'	Frac w/ 15,212# 20/40 sand in 283 bbls fluid	
(A1) 4837'-4846'	.43"	4/36	4837'-4846'	No Frac	
(C) 4576'-4591'	.43"	4/60	4576'-4591'	Frac w/ 70,586# 20/40 sand in 574 bbls fluid	
(GB6 & 4) 3988'-98', 3957'-70', 3900'-15'	.43"	4/152	3900'-3998'	Frac w/ 121,107# 20/40 sand in 849 bbls fluid	

33.* PRODUCTION										WELL STATUS (Producing or shut-in)	
DATE FIRST PRODUCTION 03/25/08		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 16' x 18' RHAC SM Plunger Pump							PRODUCING		
DATE OF TEST		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBLs.	GAS--MCF.		WATER--BBL.		GAS-OIL RATIO	
10 day ave				----->	35	70		55		2000	
FLOW. TUBING PRESS.		CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL--BBL.	GAS--MCF.		WATER--BBL.		OIL GRAVITY-API (CORR.)	
			----->								

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold & Used for Fuel

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Jentri Park

TITLE

Production Technician DIV. OF OIL, GAS & MINING DATE 05/0/08

\*(See Instructions and Spaces for Additional Data on Reverse Side)

RECEIVED

MAY 06 2008



37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	
			Well Name Federal 14-24-9-16	
				38. GEOLOGIC MARKERS
			NAME	TOP MEAS. DEPTH TRUE VERT. DEPTH
			Garden Gulch Mkr	3417'
			Garden Gulch 1	3623'
			Garden Gulch 2	3734'
			Point 3 Mkr	4001'
			X Mkr	4091'
			Y-Mkr	4138'
			Douglas Creek Mkr	4397'
			BiCarbonate Mkr	4628'
			B Limestone Mkr	4732'
			Castle Peak	5250'
			Basal Carbonate	5684'
			Wasatch	
			Total Depth (LOGGERS	5742'

# NEWFIELD



Well Name: Federal 14-24-9-16  
 LOCATION: S24, T9S, R16E  
 COUNTY/STATE: Duchesne  
 API: 43-013-33343

Spud Date: 1-18-08  
 TD: 5750'  
 CSG: 2-23-08  
 POP:

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
3/24/2008				2270				Waiting on final report
3/25/2008	24	14	72	2198	0	0	5 1/2	
3/26/2008	24	38	81	2117	0	15	6	
3/27/2008	24	0	98	2019	0	70	6	
3/28/2008	24		116	1903	0	70	6	116 Total production, all production dumped into oil tank
3/29/2008	24	0	76	1827	25	70	6	
3/30/2008	24	0	67	1760	22	70	6	
3/31/2008	24	0	26	1734	20	70	6	
4/1/2008	24	0	25	1709	20	50	6	
4/2/2008	24	0	5	1704	11	10	6	
4/3/2008	24	0	13	1691	12	10	6	Lowered rods 2"
4/4/2008	24	20	60	1631	24	60	6	Lowered rods 3" to tag
4/5/2008	24	33	40	1591	28	30	6	
4/6/2008	24	35	50	1541	17	30	6	
4/7/2008	24	37	43	1498	29	80	6	
4/8/2008	24	30	42	1456	33	80	6	transferred 170 bbls from T2 off location.
4/9/2008	24	38	56	1400	60	80	6	
4/10/2008	24	26	50	1350	70	85	6	
4/11/2008	24	35	55	1295	70	85	6	
4/12/2008	24	31	56	1239	83	90	6	
4/13/2008	24	33	48	1191	79	90	6	
4/14/2008	24	46	40	1151	75	90	6	
4/15/2008	24	23	48	1103	60	90	6	
4/16/2008	24	28	58	1045	49	70	6	
4/17/2008	24	35	23	1022	37	50	6	Transferred 50 bbls from T1 off location
4/18/2008	24	33	50	972	62	60	6	
4/19/2008	24	43	45	927	64	70	6	
4/20/2008	24	55	33	894	52	70	6	transferred 10 bbls from T1
4/21/2008	24	8	43	851	12	70	6	
4/22/2008				851				
4/23/2008				851				
4/24/2008				851				
		641	1419		1014			

45642

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-15855
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> FEDERAL 14-24-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0617 FSL 2285 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 24 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013333430000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/23/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>The above reference well was put on injection at 8:50 AM on 04/23/2014</p> </div> <div style="width: 35%; text-align: right;"> <p><b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>FOR RECORD ONLY</b>            December 22, 2014</p> </div> </div>		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/18/2014	



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-415

**Operator:** Newfield Production Company  
**Well:** Federal 14-24-9-16  
**Location:** Section 24, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33343  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on February 12, 2014.
2. Maximum Allowable Injection Pressure: 1,769 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,733' – 5,701').
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

  
John Rogers  
Associate Director

Date

4/15/2014

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Verna  
Jill Loyle, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC



Sundry Number: 49530 API Well Number: 43013333430000

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-15855
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> FEDERAL 14-24-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0617 FSL 2285 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 24 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013333430000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/1/2014			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 03/31/2014. On 04/01/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/01/2014 the casing was pressured up to 1494 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was a State representative available to witness the test - Chris Jensen.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

**FOR RECORD ONLY**

April 02, 2014

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/2/2014	

RECEIVED: Apr. 02, 2014

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company

Rt. 3 Box 3630

Myton, UT 84052

435-646-3721

Witness: Chris Jensen Date 4/11/2014 Time 11:44 am pm  
Test Conducted by: Shannon Lazenby  
Others Present: \_\_\_\_\_

Well: 14-24-9-16

Field: Greater Monument Butte

Well Location: SE/4 SW SEC. 24, T4S, R16E

API No: 43 013-33343

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1493</u>	psig
5	<u>1494</u>	psig
10	<u>1494</u>	psig
15	<u>1494</u>	psig
20	<u>1494</u>	psig
25	<u>1494</u>	psig
30 min	<u>1494</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 0 psig

Result: Pass Fail

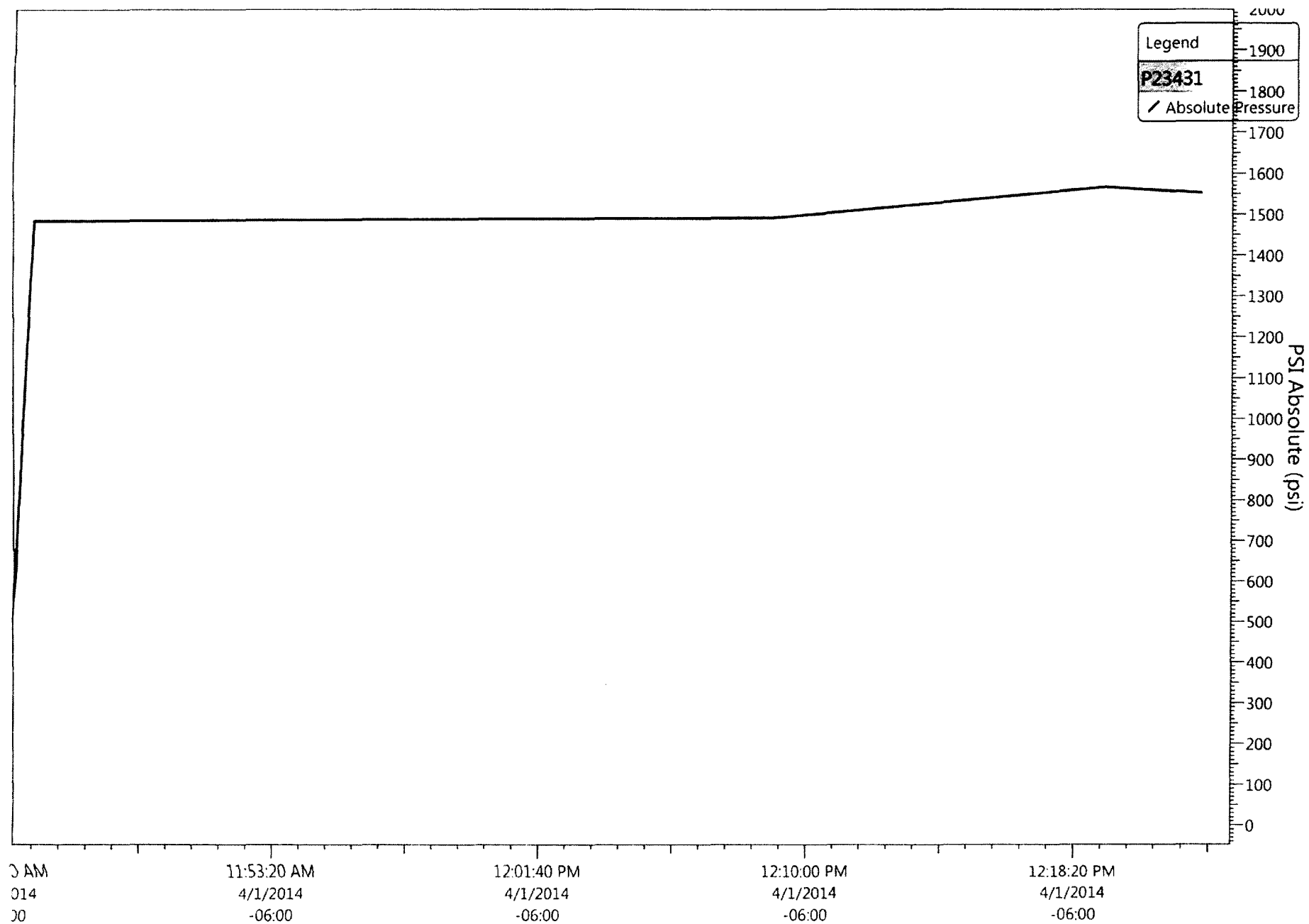
Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: \_\_\_\_\_

Sundry Number: 49530 API Well Number: 43013333430000

14 24 9 16 mit 4/1/2014

4/1/2014 11:43:01 AM



## NEWFIELD



## Job Detail Summary Report

Well Name: Federal 14-24-9-16

## Jobs

Primary Job Type Conversion	Job Start Date 3/27/2014	Job End Date
--------------------------------	-----------------------------	--------------

## Daily Operations

Report Start Date 3/27/2014	Report End Date 3/27/2014	24hr Activity Summary MIRUSU, FLUSH, LD POLISHED RODS
Start Time 05:30	End Time 06:00	Comment CREW TRAVEL
Start Time 06:00	End Time 19:00	Comment MIRUSU, SICP 1200psi SITP 300psi, Bleed d/Well, RDPU, BMW H/O Pmped 60 BW d/ Csg, LD & Strip Polished Rod, US Rod Pmp, Flushed w/ 40BW, LD Rod String (Scale Build Up on Rods), H/O Flushed w/ 60BW @ 500 to 700psi While TOO H, LD Rod Pmp, XO for Tbg, ND B-1 Adaptor, Release TAC, NU Weatherford BOP, RU Workfloor, TOO H w/ Tbg, H/O Pmped 40BW While TOO H, LD BHA, Scale @ 3940' to EOT Outside of Tbg, LD Btm 4- Jts Due to Corrosion & Wall Thickness, PU & RIH w/ Slaugh Scraper, TIH w/153- Jts..SWIFN
Start Time 19:00	End Time 19:30	Comment CREW TRAVEL
Report Start Date 3/28/2014	Report End Date 3/28/2014	24hr Activity Summary TOOH W/ TBG, MU & RIH INJ STRING
Start Time 05:30	End Time 06:00	Comment CREW TRAVEL
Start Time 06:00	End Time 17:00	Comment SICP 0psi SITP 0psi, OWU, TIH w/ 40 Jts, PU 8- Jts, Tagged Fill @ 5689' (12' of Fill on PB), LD 8- Jts, TOO H w/ 122- Jts (3827'), Breaking Collars & Applying Liquid O-Ring to Pins, LD 51- Jts on Trl, 90BW Pmped During Trip, LD Scraper, MU & RIH w/ Weatherford AS-1X Injection PKR, TIH w/ 122-Jts, Pmped 10BW Pad, Drpped Stnd Valv, RU & RIH w/ SL to Seat SV, 3BW to Fill, MU Isolation T, PT Tbg to 3040psi, Observ Press, 100psi Loss in 45Min, Bleed Pressure, Repress to 3050psi, NO PRESSURE LOSS in 60Min, GOOD TEST!, Retrieve Stnd Valv..SWIFWE
Start Time 17:00	End Time 17:30	Comment CREW TRAVEL
Report Start Date 3/31/2014	Report End Date 3/31/2014	24hr Activity Summary TIH W/ INJ STRING
Start Time 05:30	End Time 06:00	Comment CREW TRAVEL
Start Time 06:00	End Time 15:00	Comment SICP 0psi SITP 0psi, OWU, RD Workfloor, ND BOP, MU Injection Tree, BMW H/O Pmped Fresh 60BW w/ PKR Fluids d/ Csg, Set AS-1X PKR CE @ 3845' w/ 1500# of Tension, ND 3K I Injection Tree, 3BW to Fill Annulus, PT to 1400Psi, SWI Observ Press, 50psi Loss in 30Min, Repressure to 1400psi, 25psi Loss in 30min, Bleed Off Press, PT to 1500psi, NO PRESSURE LOSS in 60Min, RDMOSU..Final Rig Report!..... Newfield Rep Performed MIT
Report Start Date 4/1/2014	Report End Date 4/1/2014	24hr Activity Summary CONDUCT INITIAL MIT
Start Time 11:50	End Time 14:20	Comment On 04/01/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/01/2014 the casing was pressured up to 1494 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was a State representative available to witness the test - Chris Jensen.



## NEWFIELD



## Schematic

Well Name: Federal 14-24-9-16

Surface Legal Location 24-9S-16E	API/UWI 43013333430000	Well RC 500159253	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date	Rig Release Date	On Production Date 3/25/2008	Original KB Elevation (ft)	Ground Elevation (ft)	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB) Original Hole - 5,701.0

## Most Recent Job

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 3/27/2014	Job End Date
---------------------------------------	--------------------------------	-----------------------------	-----------------------------	--------------

TD: 5,745.4

Vertical - Original Hole, 4/2/2014 8:20:02 AM

MD (ftKB)	TVD (ftKB)	Incl (°)	DLS	DLS (°...)	Vertical schematic (actual)
11.8					
12.1					
322.5					
323.5					
3,839.2					
3,840.2					
3,841.9					
3,842.2					
3,849.1					
3,849.7					
3,853.7					
3,855.0					
3,855.3					
3,899.9					
3,998.0					
4,576.1					
4,590.9					
4,836.9					
4,846.1					
5,226.0					
5,232.9					
5,353.0					
5,360.9					
5,546.9					
5,566.9					
5,701.1					
5,701.4					
5,702.1					
5,744.8					
5,745.4					

**NEWFIELD**
**Newfield Wellbore Diagram Data**  
**Federal 14-24-9-16**

Surface Legal Location 24-9S-16E		API/UWI 43013333430000		Lease	
County DUCHESNE	State/Province Utah	Basin		Field Name GMBU CTB6	
Well Start Date 1/18/2008	Spud Date	Final Rig Release Date		On Production Date 3/25/2008	
Original KB Elevation (ft)	Ground Elevation (ft)	Total Depth (ftKB) 5,745.4	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB) Original Hole - 5,701.0	

**Casing Strings**

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	1/26/2008	8 5/8	8.097	24.00	J-55	323
Production	2/24/2008	5 1/2	4.950	15.50	J-55	5,745

**Cement****String: Surface, 323ftKB 1/26/2008**

Cementing Company BJ Services Company	Top Depth (ftKB) 12.0	Bottom Depth (ftKB) 323.4	Full Return?	Vol Cement Ret (bbl)
Fluid Description Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield	Fluid Type Lead	Amount (sacks) 160	Class G	Estimated Top (ftKB) 12.0

**String: Production, 5,745ftKB 2/24/2008**

Cementing Company BJ Services Company	Top Depth (ftKB) 12.0	Bottom Depth (ftKB) 5,745.4	Full Return?	Vol Cement Ret (bbl)
Fluid Description Premilite II w/ 10% gel + 3% KCL, 3#s/sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake	Fluid Type Lead	Amount (sacks) 300	Class PREMLITE II	Estimated Top (ftKB) 12.0
Fluid Description 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD	Fluid Type Tail	Amount (sacks) 400	Class 50/50 POZ	Estimated Top (ftKB)

**Tubing Strings**

Tubing Description					Run Date	Set Depth (ftKB)		
Tubing					3/28/2014	3,855.3		
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	122	2 7/8	2.441	6.50	J-55	3,827.26	12.0	3,839.3
Pump Seating Nipple		2 7/8				1.10	3,839.3	3,840.4
On-Off Tool		2 7/8				1.45	3,840.4	3,841.8
X Seal Nipple		2 7/8				0.33	3,841.8	3,842.1
Packer		5 1/2	4.950			6.95	3,842.1	3,849.1
Cross Over		2 3/8	1.991			0.51	3,849.1	3,849.6
Tubing Pup Joint		2 3/8				4.05	3,849.6	3,853.7
XN Nipple		2 3/8				1.22	3,853.7	3,854.9
Wireline Guide		2 3/8				0.40	3,854.9	3,855.3

**Rod Strings**

Rod Description				Run Date	Set Depth (ftKB)		
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)

**Perforation Intervals**

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (")	Nom Hole Dia (in)	Date
6	GB4 & GB6, Original Hole	3,900	3,998	4			3/16/2008
5	C sds, Original Hole	4,576	4,591	4			3/16/2008
4	A1 sds, Original Hole	4,837	4,846	4			3/16/2008
3	LODC sds, Original Hole	5,226	5,233	4			3/16/2008
2	CP2 sds, Original Hole	5,353	5,361	4			3/16/2008
1	CP5 sds, Original Hole	5,547	5,567	4			3/11/2008

**Stimulations & Treatments**

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1							
2							
3							
5							
6							
4							

**Proppant**

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant White Sand 90237 lb

**NEWFIELD**



**Newfield Wellbore Diagram Data  
Federal 14-24-9-16**

**Proppant**

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
2		Proppant White Sand 14734 lb
3		Proppant White Sand 15212 lb
5		Proppant White Sand 70586 lb
6		Proppant White Sand 121107 lb
4		0



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

February 12, 2014

Newfield Production Company  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Federal 14-24-9-16, Section 24, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33343

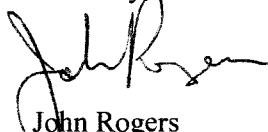
Ladies and Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 3,733 feet in the Federal 14-24-9-16 well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

  
John Rogers  
Associate Director

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Duchesne County  
Newfield Production Company, Myton  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Federal 14-24-9-16

**Location:** 24/9S/16E      **API:** 43-013-33343

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 323 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,745 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 2,880 feet or higher. A 2 7/8 inch tubing with a packer is proposed to be set at 3,850 feet. Higher perforations may be opened at a later date. A mechanical integrity test will be run on the well prior to injection. At the time of this revision (4/10/2014), there are 6 producing wells, 4 injection wells, and 1 shut-in well (the proposed injection well). The Federal 21-25Y (43-013-31394) well is an active injection well located approximately ¼ mile south of the Federal 14-24 well. The CBL (10/05/1993) for the Federal 21-25Y well indicates a good cement top at about 4415 feet. In order to establish well integrity at a higher depth, Newfield ran a Radioactive Tracer (RAT) Survey in the well on 2/20/2013. Based on the successful RAT Survey, there is evidence of well integrity, and the well was permitted to inject up to 3,672 feet. All other wells in the AOR have evidence of adequate casing and cement for the proposed injection interval.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 1700 feet. Injection shall be limited to the interval between 3,733 feet and 5,701 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 14-24-9-16 well is 0.89 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,769 psig. The requested maximum pressure is 1,769 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Federal 14-24-9-16**

**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date: 2/11/2014 (revised 4/10/2014)



4770 S. 5600 W.  
P.O. BOX 704005  
WEST VALLEY CITY, UTAH 84170  
FED. TAX ID # 87-0217663  
801-204-6910

The Salt Lake Tribune

MEDIAONE

Deseret News

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, Rose Nolton 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352 BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-415	12/13/2013

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER
8015385340	0000927358
SCHEDULE	
Start 12/13/2013	End 12/13/2013
CUST. REF. NO.	
Newfield Cause UIC-415	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT	
SIZE	
94 Lines	3.00
TIMES	
3	
MISC. CHARGES	
RECEIVED	
DEC 20 2013	

DIV. OF OIL, GAS & MINING AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I C  
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RES  
CAUSE NO. UIC-415 IN THE MATTER OF THE APPLICA FOR DIV OF OIL-GAS & MIN  
COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND D  
ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT  
NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON  
UTAHLEGALS.COM INDEFINATELY COMPLIES WITH UTAH DIGITAL SIGNATURE ACT UTAH CODE 46-2-101; 46-3-104

PUBLISHED ON Start 12/13/2013 End 12/13/2013

SIGNATURE

DATE 12/13/2013

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"  
PLEASE PAY FROM BILLING STATEMENT

2210/REB/131

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

State 2-16-9-16 well located in NW/4 NE/4, Section 16, Township 9 South, Range 16 East  
API 43-013-33846  
State 13-16-9-16 well located in SW/4 SW/4, Section 16, Township 9 South, Range 16 East  
API 43-013-33853  
Castle Peak 32-16 well located in SW/4 NE/4, Section 16, Township 9 South, Range 16 East  
API 43-013-30650  
Federal 10-17-9-16 well located in NW/4 SE/4, Section 17, Township 9 South, Range 16 East  
API 43-013-33033  
Federal 12-17-9-16 well located in NW/4 SW/4, Section 17, Township 9 South, Range 16 East  
API 43-013-33035  
Federal 16-18-9-16 well located in SE/4 SE/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32922  
Federal 2-19-9-16 well located in NW/4 NE/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33063  
Federal 6-19-9-16 well located in SE/4 NW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33100  
Federal 12-19-9-16 well located in NW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33102  
Federal 14-19-9-16 well located in SE/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33161  
Federal 16-19-9-16 well located in SE/4 SE/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33163  
Federal 8-20-9-16 well located in SE/4 NE/4, Section 20, Township 9 South, Range 16 East  
API 43-013-33107  
Federal 3-21-9-16 well located in NE/4 NW/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33019  
Federal 4-21-9-16 well located in NW/4 NW/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33069  
Federal 8-21-9-16 well located in SE/4 NE/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33022  
Federal 2-23-9-16 well located in NW/4 NE/4, Section 23, Township 9 South, Range 16 East  
API 43-013-33003  
Castle Peak Federal 6-23 well located in SE/4 NW/4, Section 23, Township 9 South, Range 16 East  
API 43-013-30873  
Federal 8-23-9-16 well located in SE/4 NE/4, Section 23, Township 9 South, Range 16 East  
API 43-013-32961  
Federal 14-24-9-16 well located in SE/4 SW/4, Section 24, Township 9 South, Range 16 East  
API 43-013-33343

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of December, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/ Brad Hill  
Permitting Manager

923758

UPAXLE



VIRGINIA CRAFT  
Notary Public, State of Utah  
Commission Expires  
January 12, 2014

Virginia Craft  
NOTARY SIGNATURE



# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 17 day of December, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 17 day of December, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

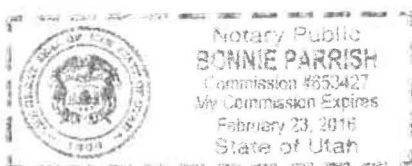
  
Publisher

Subscribed and sworn to before me on this

23 day of December, 20 13

by Kevin Ashby.

  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-415

BEFORE THE  
DIVISION OF OIL,  
GAS AND MINING,  
DEPARTMENT OF  
NATURAL RE-  
SOURCE, STATE  
OF UTAH.

IN THE MATTER  
OF THE APPLICA-  
TION OF NEW-  
FIELD PRODUC-  
TION COMPANY  
FOR ADMINISTRA-  
TIVE APPROVAL  
OF CERTAIN  
WELLS LOCATED  
IN SECTIONS 16,  
17, 18, 19, 20, 21, 23,  
and 24, TOWNSHIP  
9 SOUTH, RANGE  
16 EAST, DUCH-  
ESNE COUNTY,  
UTAH, AS CLASS  
II INJECTION  
WELLS.

THE STATE OF  
UTAH TO ALL PER-  
SONS INTERESTED  
IN THE ABOVE  
ENTITLED MAT-  
TER.

Notice is hereby  
given that the Divi-  
sion of Oil, Gas and  
Mining (the "Divi-  
sion") is commencing  
an informal adjudi-  
cative proceeding  
to consider the ap-  
plication of Newfield  
Production Company,  
1001 17th Street,

Continued on next page

Continued from  
previous page

Suite 2000, Denver,  
Colorado 80202, tele-  
phone 303-893-0102,  
for administrative ap-  
proval of the following  
wells located in Duch-  
esne County, Utah, for  
conversion to Class II  
injection wells:

'Greater Monument  
Butte Unit:

State 2-16-9-16 well  
located in NW/4 NE/4,  
Section 16, Township 9  
South, Range 16 East

API 43-013-33846  
State 13-16-9-16  
well located in SW/4  
SW/4, Section 16,  
Township 9 South,  
Range 16 East

API 43-013-33853  
Castle Peak 32-16  
well located in SW/4  
NE/4, Section 16,  
Township 9 South,  
Range 16 East

API 43-013-30650  
Federal 10-17-9-  
16 well located in  
NW/4 SE/4, Section  
17, Township 9 South,  
Range 16 East

API 43-013-33033  
Federal 12-17-9-  
16 well located in  
NW/4 SW/4, Section  
17, Township 9 South,  
Range 16 East

API 43-013-33035  
Federal 16-18-9-  
16 well located in  
SE/4 SE/4, Section  
18, Township 9 South,  
Range 16 East

API 43-013-32922  
Federal 2-19-9-16  
well located in NW/4  
NE/4, Section 19,  
Township 9 South,  
Range 16 East

API 43-013-33063  
Federal 6-19-9-16  
well located in SE/4  
NW/4, Section 19,  
Township 9 South,  
Range 16 East

API 43-013-33100  
Federal 12-19-9-  
16 well located in  
NW/4 SW/4, Section  
19, Township 9 South,  
Range 16 East

API 43-013-33102  
Federal 14-19-9-  
16 well located in  
SE/4 SW/4, Section  
19, Township 9 South,

Any person desir-  
ing to object to the  
application or oth-  
erwise intervene  
the proceeding, mu-  
st file a written pro-  
tective notice of inter-  
vention with the Divi-  
sion within fifteen days  
following publication  
of this notice. The Di-  
vision's Presiding Of-  
ficer for the proceeding  
is Brad Hill, Permitting  
Manager, at P.O. Box  
145801, Salt Lake City,  
UT 84114-5801, phone  
number (801) 533-  
5340. If such a protective  
notice of interven-  
tion is received, a hearing  
will be scheduled in ac-  
cordance with the aforemen-  
tioned administrative pro-  
cedural rules. Protes-  
tants and/or interven-  
ers should be prepared  
to demonstrate at the  
hearing how this matter  
affects their interest.  
Dated this 11th day  
of December, 2013  
STATE OF UTAH  
DIVISION OF OIL  
& GAS & MINING  
/s/  
Brad Hill  
Permitting Manager  
Published in the  
Uintah Basin Standard  
December 17, 2013

RECEIVED

DEC 24 2013

DIV OF OIL GAS & MINING

Federal 14-19-9-16 well located in SE/4 SW/4, Section 19, Township 9 South, Range 16 East

API 43-013-33161

Federal 16-19-9-16 well located in SE/4 SE/4, Section 19, Township 9 South, Range 16 East

API 43-013-33163

Federal 8-20-9-16 well located in SE/4 NE/4, Section 20, Township 9 South, Range 16 East

API 43-013-33107

Federal 3-21-9-16 well located in NE/4 NW/4, Section 21, Township 9 South, Range 16 East

API 43-013-33019

Federal 4-21-9-16 well located in NW/4 NW/4, Section 21, Township 9 South, Range 16 East

API 43-013-33069

Federal 8-21-9-16 well located in SE/4 NE/4, Section 21, Township 9 South, Range 16 East

API 43-013-33023

Federal 2-23-9-16 well located in NW/4 NE/4, Section 23, Township 9 South, Range 16 East

API 43-013-33003

Castle Peak Federal 6-23 well located in SE/4 NW/4, Section 23, Township 9 South, Range 16 East

API 43-013-30873

Federal 8-23-9-16 well located in SE/4 NE/4, Section 23, Township 9 South, Range 16 East

API 43-013-32961

Federal 14-24-9-16 well located in SE/4 SW/4, Section 24, Township 9 South, Range 16 East

API 43-013-33343

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-415

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 16, 17, 18, 19, 20, 21, 23, and 24, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

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API 43-013-33100  
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API 43-013-33102  
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API 43-013-33069  
Federal 8-21-9-16 well located in SE/4 NE/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33023  
Federal 2-23-9-16 well located in NW/4 NE/4, Section 23, Township 9 South, Range 16 East  
API 43-013-33003

Castle Peak Federal 6-23 well located in SE/4 NW/4, Section 23, Township 9 South, Range 16 East  
API 43-013-30873

Federal 8-23-9-16 well located in SE/4 NE/4, Section 23, Township 9 South, Range 16 East  
API 43-013-32961

Federal 14-24-9-16 well located in SE/4 SW/4, Section 24, Township 9 South, Range 16 East  
API 43-013-33343

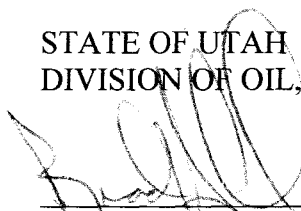
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Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of December, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
\_\_\_\_\_  
Brad Hill  
Permitting Manager

**Newfield Production Company**

**STATE 2-16-9-16, STATE 13-16-9-16, CASTLE PEAK 32-16,  
FEDERAL 10-17-9-16, FEDERAL 12-17-9-16, FEDERAL 16-18-9-16,  
FEDERAL 2-19-9-16, FEDERAL 6-19-9-16, FEDERAL 12-19-9-16,  
FEDERAL 14-19-9-16, FEDERAL 16-19-9-16, FEDERAL 8-20-9-16,  
FEDERAL 3-21-9-16, FEDERAL 4-21-9-16, FEDERAL 8-21-9-16,  
FEDERAL 2-23-9-16, CASTLE PEAK FEDERAL 6-23,  
FEDERAL 8-23-9-16, FEDERAL 14-24-9-16**

**Cause No. UIC-415**

Publication Notices were sent to the following:

Newfield Production Company  
1001 17th Street, Suite 2000  
Denver, CO 80202

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [ubs@ubstandard.com](mailto:ubs@ubstandard.com)

Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

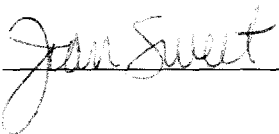
Vernal Office  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

SITLA  
675 E 500 S Ste 500  
Salt Lake City, UT 84102-2818

Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

Bruce Suchomel  
US EPA Region 8  
MS 8P-W-GW  
1595 Wynkoop Street  
Denver, CO 80202-1129

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

  
\_\_\_\_\_



GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

December 12, 2013

Via e-mail: [legals@ubstandard.com](mailto:legals@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-415

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure

12/12/2013

State of Utah Mail - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-415

Jean Sweet <jsweet@utah.gov>

---

**Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-415**

1 message

---

**UB Standard Legals** <ubslegals@ubmedia.biz>

Thu, Dec 12, 2013 at 1:22 PM

To: Jean Sweet <jsweet@utah.gov>

On 12/12/2013 11:59 AM, Jean Sweet wrote:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

Jean

—

Jean Sweet

Executive Secretary

Utah Division of Oil, Gas and Mining

801-538-5329

This will publish Dec. 17. Thank you. Merry Christmas.  
Cindy



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

December 12, 2013

VIA E-MAIL [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Salt Lake Tribune  
P. O. Box 45838  
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-415

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



12/12/2013

State of Utah Mail - Proof for Notice

Jean Sweet <jsweet@utah.gov>

---

## Proof for Notice

1 message

---

**Stowe, Ken** <naclegal@mediaoneutah.com>  
Reply-To: "Stowe, Ken" <naclegal@mediaoneutah.com>  
To: jsweet@utah.gov

Thu, Dec 12, 2013 at 12:34 PM

AD# 927358  
Run SL Trib & Des News 12/13  
Cost \$478.76  
Thank You

---

 **OrderConf.pdf**  
185K

## Order Confirmation for Ad #0000927358-01

<b>Client</b>	DIV OF OIL-GAS & MINING	<b>Payor Customer</b>	DIV OF OIL-GAS & MINING
<b>Client Phone</b>	801-538-5340	<b>Payor Phone</b>	801-538-5340
<b>Account#</b>	9001402352	<b>Payor Account</b>	9001402352
<b>Address</b>	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	<b>Payor Address</b>	1594 W NORTH TEMP #1210, P.O. BOX SALT LAKE CITY, UT 84114
<b>Fax</b>	801-359-3940	<b>Ordered By</b>	<b>Acct. Exec</b>
<b>E-Mail</b>	juliecarter@utah.gov	Jean	kstowe

<b>Total Amount</b>	<b>\$478.76</b>			
<b>Payment Amt</b>	<b>\$0.00</b>			
		<b><u>Tear Sheets</u></b>	<b><u>Proofs</u></b>	<b><u>Affidavits</u></b>
<b>Amount Due</b>	<b>\$478.76</b>	0	0	1
<b>Payment Method</b>		<b><u>PO Number</u></b>	Newfield Cause UIC-4	
<b>Confirmation Notes:</b>				
<b>Text:</b>	Jean			

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	3.0 X 94 Li	<NONE>

<b><u>Product</u></b>	<b><u>Placement</u></b>	<b><u>Position</u></b>
Salt Lake Tribune::	Legal Liner Notice - 0998	998-Other Legal Notices
<b>Scheduled Date(s):</b>	12/13/2013	
<b><u>Product</u></b>	<b><u>Placement</u></b>	<b><u>Position</u></b>
Deseret News::	Legal Liner Notice - 0998	998-Other Legal Notices
<b>Scheduled Date(s):</b>	12/13/2013	
<b><u>Product</u></b>	<b><u>Placement</u></b>	<b><u>Position</u></b>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	12/13/2013	

## Order Confirmation for Ad #0000927358-01

**Ad Content Proof Actual Size**

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

PH 303-893-0102 | FAX 303-893-0103

December 5, 2013

Mr. Mark Reinbold  
State of Utah  
Division of Oil, Gas and Mining  
1594 W North Temple  
Salt Lake City, Utah 84114-5801

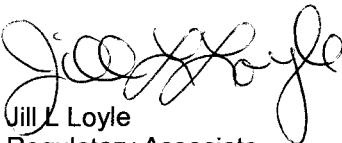
RE: Permit Application for Water Injection Well  
Federal #14-24-9-16  
Monument Butte Field, Lease #UTU-15855  
Section 24-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #14-24-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

  
Jill L. Loyle  
Regulatory Associate

**RECEIVED**

**DEC 06 2013**

**DIV. OF OIL, GAS & MINING**

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #14-24-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-15855**  
**DECEMBER 5, 2013**

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# Federal 14-24-9-16

Spud Date: 1/18/08  
Put on Production: 3/24/08  
GL: 5704' KB: 5716'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (311.53')  
DEPTH LANDED: 323.38'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G", circ. 4 bbls to surf.

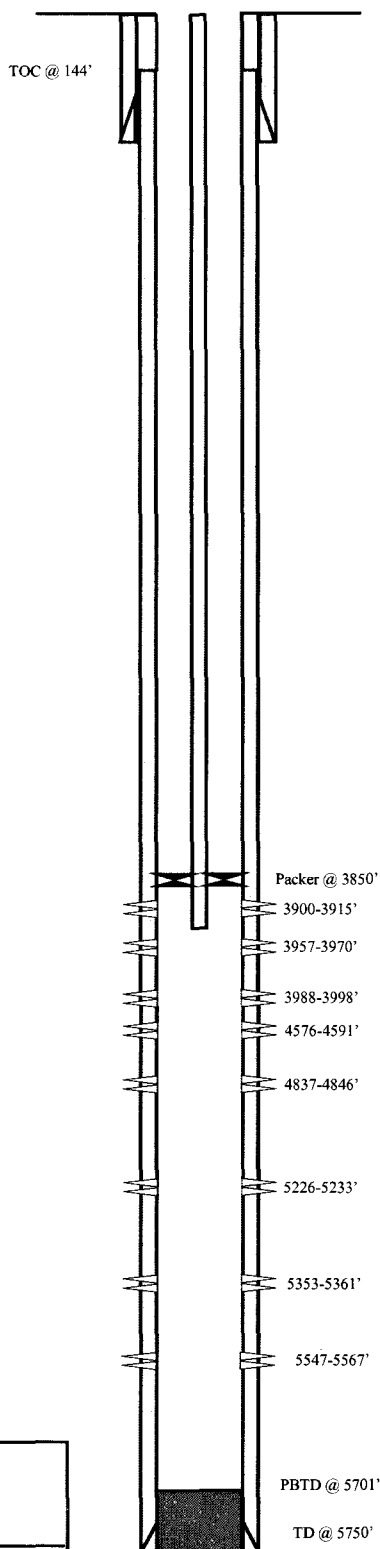
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 135 jts (5732.19')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5745.44'  
CEMENT DATA: 300 sxs Premite II & 400 sxs 50/50 POZ  
CEMENT TOP AT: 144' per CBL 3/10/08

## TUBING (GI 2/14/11)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 175 jts (5494.06')  
TUBING ANCHOR: 5506.06'  
NO. OF JOINTS: 1 jts (31.4')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5540.26' KB  
NO. OF JOINTS: 1 jt (31.4')  
NOTCHED COLLAR: 2-7/8" (0.45')  
TOTAL STRING LENGTH: EOT @ 5573.21'

## Proposed Injection Wellbore Diagram



## FRAC JOB

**3-15-08 5547-5567' Frac CP5 Sands as follows:**  
90,237# 20/40 sand in 711 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1817 w/ ave rate of 23.4 bpm w/ 8 ppg of sand. ISIP was 2069. Actual Flush: 5082 gal.

**3-15-08 5353-5361' Frac CP2 Sands as follows:**  
14,734# 20/40 sand in 284 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2150 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. ISIP was 1989. Actual Flush: 4872 gal.

**3-15-08 5226-5233' Frac LODC Sands as follows:**  
15,212# 20/40 sand in 283 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2379 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. ISIP was 2268. Actual Flush: 4746 gal.

**3-15-08 4837-4846' Frac A1 Sands as follows:**  
No breakdown or Frac

**3-15-08 4576-4591' Frac C Sands as follows:**  
70,586# 20/40 sand in 574 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2299 w/ ave rate of 23.3 bpm w/ 8 ppg of sand. ISIP was 2299. Actual Flush: 4074 gal.

**3-15-08 3900-3998' Frac GB4 & GB6 Sands as follows:**  
121,107# 20/40 sand in 849 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2299 w/ ave rate of 26 bpm w/ 8 ppg of sand. ISIP was 1794. Actual Flush: 3780 gal.

## PERFORATION RECORD

3/15/08	3900-3915'	4 JSPF	60 holes
3/15/08	3957-3970'	4 JSPF	52 holes
3/15/08	3988-3998'	4 JSPF	40 holes
3/15/08	4576-4591'	4 JSPF	60 holes
3/15/08	4837-4846'	4 JSPF	36 holes (No frac)
3/15/08	5226-5233'	4 JSPF	28 holes
3/15/08	5353-5361'	4 JSPF	32 holes
3/15/08	5547-5567'	4 JSPF	80 holes

**NEWFIELD**



**Federal 14-24-9-16**  
617' FSL & 2285' FWL  
SE/SW Section 24 -T9S-R16E  
Duchesne Co, Utah  
API #43-013-33343; Lease UTU-15855

JL 12/4/2013

## **WORK PROCEDURE FOR INJECTION CONVERSION**

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.



**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

**2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202

**2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.

**2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Federal #14-24-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

**2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

**2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Federal #14-24-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3733' - 5701'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3416' and the TD is at 5750'.

**2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Federal #14-24-9-16 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-15855) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 323' KB, and 5-1/2", 15.5# casing run from surface to 5745' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**2.8 The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1769 psig.

**2.9 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Federal #14-24-9-16, for existing perforations (3900' - 5567') calculates at 0.89 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1769 psig. We may add additional perforations between 3416' and 5750'. See Attachments G and G-1.

**2.10 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Federal #14-24-9-16, the proposed injection zone (3733' - 5701') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

**2.11 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-10.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

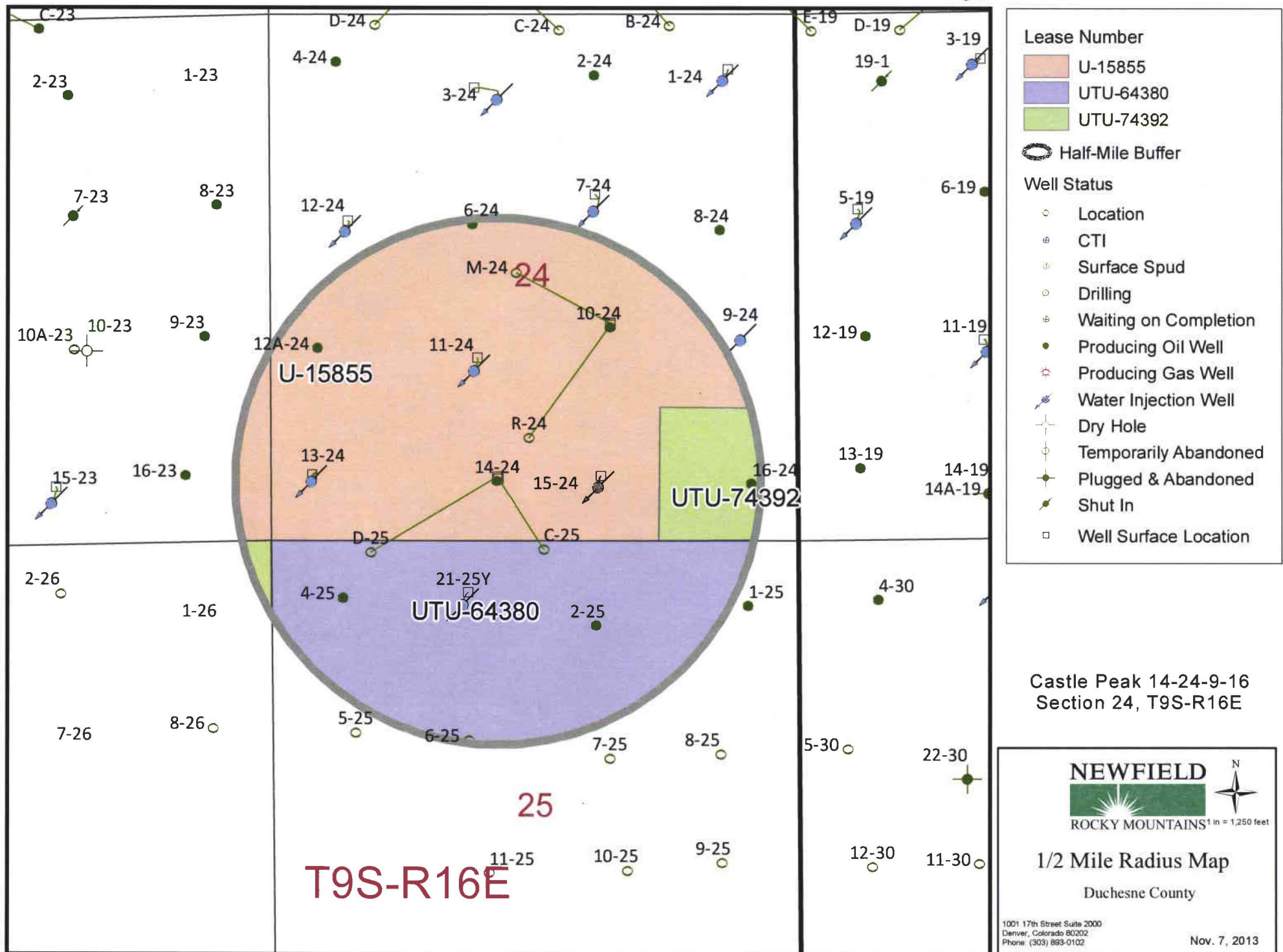
**2.12 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

**2.13 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Newfield Production Company will supply any requested information to the Board or Division.

**ATTACHMENT A**



T9S, R16E, S.L.B.&amp;M.

NEWFIELD PRODUCTION COMPANY

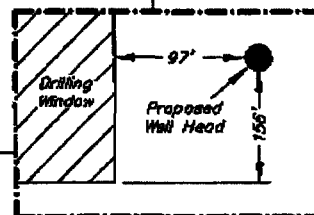
WELL LOCATION, CASTLE PEAK  
14-24-9-16, LOCATED AS SHOWN IN  
THE SE 1/4 SW 1/4 OF SECTION 24,  
T9S, R16E, S.L.B.&M. DUCHESNE COUNTY,  
UTAH.



**WELL LOCATION:**  
**CASTLE PEAK 14-24-9-16**  
ELEV. UNGRADED GROUND = 5704.3'

24

DRILLING WINDOW  
See Detail At Right



**Detail**  
No Scale

THIS IS TO CERTIFY THAT THE ABOVE DEED WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377

*Stacy W. Stewart*  
STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 189377  
STATE OF UTAH

TRI STATE LAND SURVEYING &amp; CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 5-12-06	SURVEYED BY: D.P.
DATE DRAWN: 06-27-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV:  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**CASTLE PEAK 14-24-9-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 00' 38.98"  
LONGITUDE = 110° 04' 08.56"

**EXHIBIT B**

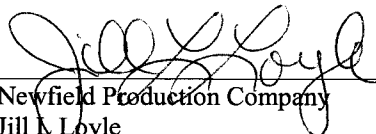
#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM Section 23: E2, NW, E2SW, NWSW Section 24: N2, SW, N2SE, SWSE	USA UTU-15855 HBP	Newfield Production Company Newfield RMI LLC Bee Hive Oil LLC Journey Properties LLC King Oil & Gas of Texas LTD Six Gold Oil LLC Stone Energy Corp	USA
2	T9S R16E SLM Section 25: N2, NESW,SE Section 26: NWNE, SENE, SWSW	USA UTU -64380 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA
3	T9S-R16E SLM Section 21: S2 Section 22: NENE, S2 Section 23: SWSW Section 24: SESE Section 26: NENE Section 27: All Section 28: All	USA UTU-74392 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA

ATTACHMENT C

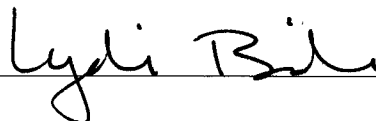
CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Federal #14-24-9-16

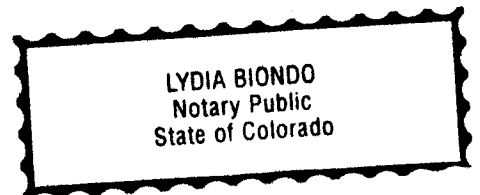
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:   
Newfield Production Company  
Jill L. Loyle  
Regulatory Associate

Sworn to and subscribed before me this 5<sup>th</sup> day of December, 2013.

Notary Public in and for the State of Colorado: 

My Commission Expires: 12/31/15





## Federal 14-24-9-16

Spud Date: 1/18/08  
Put on Production: 3/24/08  
GL: 5704' KB: 5716'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (311.53')  
DEPTH LANDED: 323.38'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G", circ. 4 bbls to surf.

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CSG SIZE: 5-1/2"  
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WEIGHT: 15.5#  
LENGTH: 135 jts (5732.19')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5745.44'  
CEMENT DATA: 300 sxs Premite II & 400 sxs 50/50 POZ  
CEMENT TOP AT: 144' per CBL 3/10/08

TUBING (GI 2/14/11)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 175 jts (5494.06')  
TUBING ANCHOR: 5506.06'  
NO. OF JOINTS: 1 jts (31.4')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5540.26' KB  
NO. OF JOINTS: 1 jt (31.4')  
NOTCHED COLLAR: 2-7/8" (0.45')  
TOTAL STRING LENGTH: EOT @ 5573.21'

SUCKER RODS (GI 2/14/11)

POLISHED ROD: 1-1/2" x 26'  
SUCKER RODS: 4', 4', 6', 8' x 3/4" pony rod, 99 x 3/4" guided rods, 80 x 3/4" sucker rods, 35 x 3/4" guided rods, 6 x 1-1/2" weight bars  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' x 20' RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 4  
PUMPING UNIT: WEATHERFORD C-228-213-86

TOC @ 144'

3900-3915'

3957-3970'

3988-3998'

4576-4591'

4837-4846' No Breakdown or Frac

5226-5233'

5353-5361'

Anchor @ 5506'

SN @ 5540'

5547-5567'

EOT @ 5573'

PBTD @ 5701'

TD @ 5750'

FRAC JOB**3-15-08 5547-5567' Frac CP5 Sands as follows:**

90,237# 20/40 sand in 711 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1817 w/ ave rate of 23.4 bpm w/ 8 ppg of sand. ISIP was 2069. Actual Flush: 5082 gal.

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PERFORATION RECORD

3/15/08	3900-3915'	4 JSPF	60 holes
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3/15/08	5226-5233'	4 JSPF	28 holes
3/15/08	5353-5361'	4 JSPF	32 holes
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**NEWFIELD**

**Federal 14-24-9-16**  
617' FSL & 2285' FWL  
SE/SW Section 24 -T9S-R16E  
Duchesne Co, Utah  
API #43-013-33343; Lease UTU-15855

## FEDERAL 6-24-9-16

Spud Date: 11/02/07  
Put on Production: 12/12/07  
GL: 5611' KB: 5623'

## Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (312.81')  
DEPTH LANDED: 324.66' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 149 jts. (5761.33')  
DEPTH LANDED: 5750' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 68'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 172 jts (5400')  
TUBING ANCHOR: 5399.5' KB  
NO. OF JOINTS: 1 jts (32.6')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5434.9' KB  
NO. OF JOINTS: 2 jts (62.9')  
TOTAL STRING LENGTH: EOT @ 5499' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM polished rods  
SUCKER RODS: 1-4' x 3/4" pony rods, 99-3/4" guided rods, 45-3/4" guided rods, 66-3/4" guided rods, 6-1 1/2" weight rods.  
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12x 18'  
SPM 82"  
PUMP SPEED, 4 SPM:

FRAC JOB

12/06/07 5410-5418' **Frac CP3 sands as follows:**  
25257# 20/40 sand in 361 bbls Lightning 17 frac fluid. Treated @ avg press of 2391 psi w/avg rate of 23.1 BPM. ISIP 2055 psi. Calc flush: 5408 gal. Actual flush: 4906 gal.

12/06/07 5259-5266' **Frac CP.5 sands as follows:**  
25324# 20/40 sand in 351 bbls Lightning 17 frac fluid. Treated @ avg press of 2677 psi w/avg rate of 23.1 BPM. ISIP 2035 psi. Calc flush: 5257 gal. Actual flush: 4754 gal.

12/06/07 4994-5002' **Frac LODC sands as follows:**  
25369# 20/40 sand in 354 bbls Lightning 17 frac fluid. Treated @ avg press of 3093 psi w/avg rate of 23.2 BPM. ISIP 3198 psi. Calc flush: 4992 gal. Actual flush: 4490 gal.

12/06/07 4842-4864' **Frac A1 sands as follows:**  
40223# 20/40 sand in 398 bbls Lightning 17 frac fluid. Treated @ avg press of 2114 psi w/avg rate of 23.1 BPM. ISIP 2132 psi. Calc flush: 4840 gal. Actual flush: 4326 gal.

12/06/07 3877-3888' **Frac GB4 sands as follows:**  
38701# 20/40 sand in 339 bbls Lightning 17 frac fluid. Treated @ avg press of 1497 psi w/avg rate of 23.2 BPM. ISIP 1632 psi. Calc flush: 3875 gal. Actual flush: 3822 gal.

4/3/09 Tubing Leak. Updated r & t details.  
9/3/09 Tubing Leak. Updated rod & tubing details.  
10/16/2010 Tubing Leak. Update rod and tubing details.

PERFORATION RECORD

11/29/07	5410-5418'	4 JSPF	32 holes
12/06/07	5259-5266'	4 JSPF	28 holes
12/06/07	4994-5002'	4 JSPF	32 holes
12/06/07	4859-4864'	4 JSPF	20 holes
12/06/07	4842-4851'	4 JSPF	36 holes
12/06/07	3877-3888'	4 JSPF	44 holes

Cement Top @ 68'

SN 5430'

3877-3888'

4842-4851'

4859-4864'

4994-5002'

5259-5266'

Anchor @ 5400'

5410-5418'

EOT @ 5499'

PBTD @ 5720'

SHOE @ 5750'

TD @ 5750'

**NEWFIELD****FEDERAL 6-24-9-16**

2039'FNL &amp; 2046' FWL

SE/NW Section 24-T9S-R16E

Duchesne Co, Utah

API #43-013-32962; Lease # UTU-15855

## Federal 10-24-9-16

Spud Date: 02/28/08  
Put on Production: 4/03/08  
GL: 5619' KB: 5631'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (308.08')  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 132jts. (5761.15')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5730.96'  
CEMENT DATA: 275 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 120'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 168 jts (5283.44')  
TUBING ANCHOR: 5295.44'  
NO. OF JOINTS: 1 jts (31.49')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5329.73' KB  
NO. OF JOINTS: 2 jts (62.63')  
TOTAL STRING LENGTH: EOT @ 5393.91' w/12' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
SUCKER RODS: 1-2', 1-4', 1-6', 1-8' x 3/4" pony rods "B", 216- 3/4" scraped "B" rods, 6- 1 1/2" weight "B" rods  
PUMP SIZE: 2-1/2" x 1-1/2" 12' x 18' RHAC pump w/ SM plunger  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 4

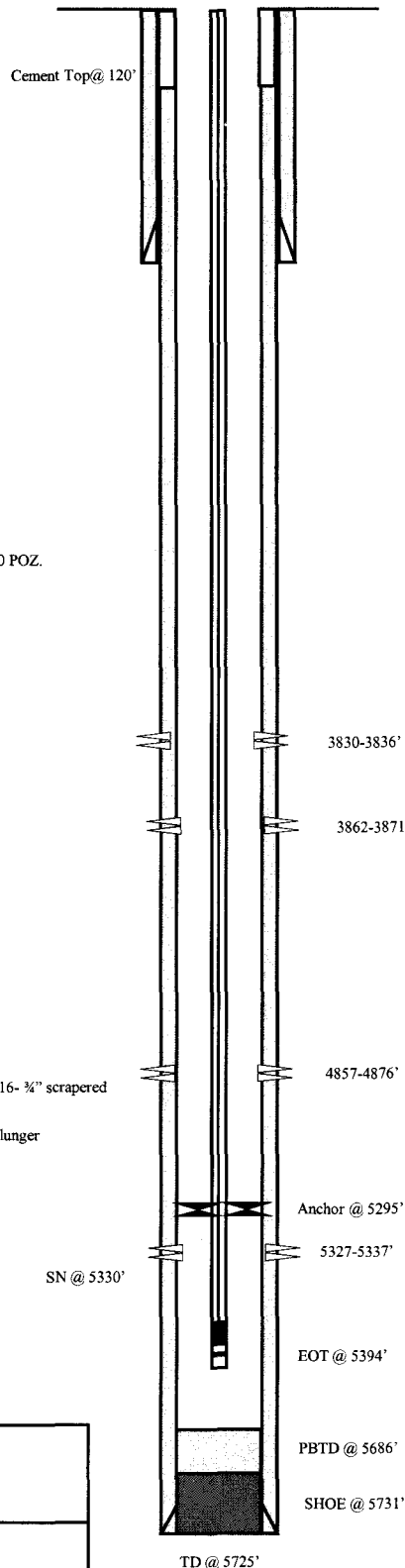
FRAC JOB

3-28-08 5327-5337' **Frac CP2 sands as follows:**  
Frac with 35352# 20/40 sand in 424bbbs Lightning 17 fluid. Treat with ave pressure of 1894 psi @ 23.4 BPM. ISIP 1833 psi.

3-28-08 4857-4876' **Frac A3 sands as follows:**  
Frac with 120384# 20/40 sand in 867 bbls Lightning 17 fluid. Treat with ave pressure of 1747psi @ 26 BPM. ISIP 2031psi.

3-28-08 3830-3836' **Frac GB2 & CB4 sands as follows:**  
Frac with 18427# 20/40 sand in 269 bbls Lightning 17 fluid. Treat with ave pressure of 1791psi @ 23.4 BPM. ISIP 1700 psi.

9/3/09 Pump change. Updated rod & tubing details.

PERFORATION RECORD

3830-3836'	4 JSPF	24 holes
3862-3871'	4 JSPF	36 holes
4857-4876'	4 JSPF	76 holes
5327-5337'	4 JSPF	40 holes

**NEWFIELD**

**Federal 10-24-9-16**  
2138' FSL & 1861' FEL  
NWSE Section 24 -T9S-R16E  
Duchesne Co, Utah  
API #43-013-33339; Lease #UTU-15855

## Federal 16-24-9-16

Spud Date: 03-10-08  
Put on Production: 04-23-08  
GL: 5607' KB: 5619'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 8 jts (314.56')  
DEPTH LANDED: 326.41'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, circ 3 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133 jts. (5659.85')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5672.1'  
CEMENT DATA: 275 sxs Premilite II & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 320' per CBL 4/7/08

TUBING (GI 4/23/08)

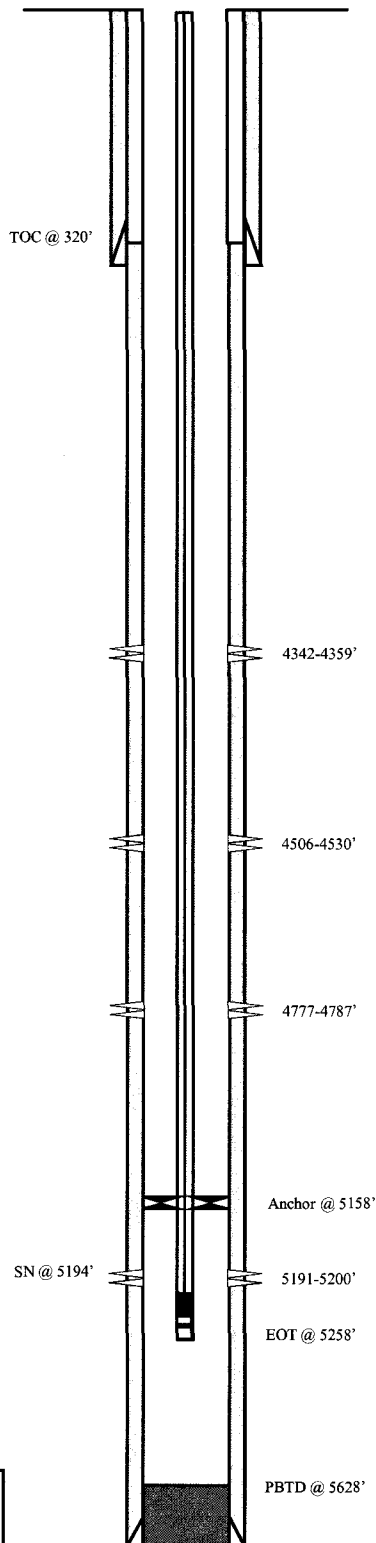
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 164 jts (5146.34')  
TUBING ANCHOR: 5158.34'  
NO. OF JOINTS: 1jt (32.42')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5193.51'  
NO. OF JOINTS: 2 jts (62.84')  
TOTAL STRING LENGTH: EOT @ 5257.9'

SUCKER RODS (GI 11/5/12)

POLISHED ROD: 26' x 1-1/2"  
SUCKER RODS: 4', 6', 8' x 3/4" Pony Rods, 96 x 3/4" Guided Rods, 74 x 3/4" slick rods, 29 x 3/4" guided rods, 6 x 1" Stabilizer Pony, 6 x 1-1/2" Sinker Bars  
PUMP SIZE: 2-1/2" x 1-1/4" x 10' x 14' x 16' RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 3.6  
PUMPING UNIT: WEATHERFORD 228-213-86

FRAC JOB

04-15-08	5191-5200'	<b>Frac CPI sands as follows:</b> Frac with 29682 #'s of 20/40 sand in 400 bbls of Lightning 17 fluid. Treat at an ave pressure 2195 psi @ 23.3 BPM. ISIP 2600 psi.
04-15-08	4777-4787'	<b>Frac A1 sands as follows:</b> Frac with 54889 #'s of 20/40 sand in 492 bbls of Lightning 17 fluid. Treat at an ave pressure of 1930 psi @ 23.4 BPM. ISIP 2058 psi.
04-15-08	4506-4530'	<b>Frac C sands as follows:</b> Frac with 109721 #'s of 20/40 sand in 801 bbls of Lightning 17 fluid. Treat at an ave pressure of 1930 psi @ 23.1 BPM. ISIP 1810 psi.
04-15-08	4342-4359'	<b>Frac D1 sands as follows:</b> Frac with 56918 #'s of 20/40 sand in 516 bbls of Lightning 17 fluid. Treat at an ave pressure of 1990 psi @ 23.4 BPM. ISIP 2108 psi.

PERFORATION RECORD

4342-4359'	4 JSPF	68 holes
4506-4530'	4 JSPF	96 holes
4777-4787'	4 JSPF	40 holes
5191-5200'	4 JSPF	36 holes

**NEWFIELD****Federal 16-24-9-16**

579' FSL &amp; 466' FEL

SESE Section 24-T9S-R16E

Duchesne Co, Utah

API #43-013-33345; Lease #UTU-74392

## Federal 15-24-9-16

Spud Date: 1-29-08

Put on Production: 4-4-08

GL: 5692' KB: 5704'

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts (310.60')

DEPTH LANDED: 322.45' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 132 jts. (5691.43')

DEPTH LANDED: 5704.68' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 400 sxs 50/50 POZ.

CEMENT TOP AT: 188'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 122 jts (3825.8')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3838.9' KB

ON/OFF TOOL AT: 3841.21'

ARROW #1 PACKER CE AT: 3844.51'

XO 2-3/8 x 2-7/8 J-55 AT: 3849.11'

TBG SUB 2-3/8 J-55 AT: 3853.21'

X/N NIPPLE AT: 3854.31'

TOTAL STRING LENGTH: EOT @ 3854.76'

FRAC JOB

3-25-08 5346-5388'

**Frac CP2, & CP3 sands as follows:**

14902# 20/40 sand in 274 bbls Lightning 17 frac fluid. Treated @ avg press of 2088 psi w/avg rate of 22.8 BPM. ISIP 1723 psi. Calc flush: 5344 gal. Actual flush: 4872 gal.

03-25-08 4824-4835'

**Frac A1 sands as follows:**

80085# 20/40 sand in 620 bbls Lightning 17 frac fluid. Treated @ avg press of 2028 psi w/avg rate of 25.4 BPM. ISIP 2346 psi. Calc flush: 4822 gal. Actual flush: 4368 gal.

03-25-08 4646-4697'

**Frac B2, & B.5 sands as follows:**

50285# 20/40 sand in 439 bbls Lightning 17 frac fluid. Treated @ avg press of 1938 psi w/avg rate of 25.3 BPM. ISIP 1902 psi. Calc flush: 4644 gal. Actual flush: 4158 gal.

03-25-08 4196-4207'

**Frac PB11 sand as follows:**

55398# 20/40 sand in 471 bbls Lightning 17 frac fluid. Treated @ avg press of 2101 w/ avg rate of 25.3 BPM. ISIP 2088 psi. Calc flush: 4194 gal. Actual flush: 3696 gal.

03-25-08 3910-3920'

**Frac GB4 sand as follows:**

44184# 20/40 sand in 403 bbls Lightning 17 frac fluid. Treated @ avg press of 1785 w/ avg rate of 25.4 BPM. ISIP 1860 psi. Calc flush: 3908 gal. Actual flush: 3822 gal.

03/16/10

**Parted Rods. Tubing & Rods updated.**

09/27/12 4575-4593'

**Frac C sands as follows:** 29480# 20/40 sand in 322 bbls Lightning 17 frac fluid.

09/27/12 4428-4431'

**Frac D1 sands as follows:** 19228# 20/40 sand in 187bbls Lightning 17 frac fluid

10/02/12

**Convert to Injection Well**

10/05/12

**Conversion MIT Finalized** - update tbg detail

SN @ 3839'

On Off Tool @ 3841'

Packer 3844'

X/N Nipple @ 3854'  
EOT @ 3855'

3910-3920'

4196-4207'

4646-4654'

4691-4697'

4824-4835'

5346-5354'

5382-5388'

PBSD @ 5661'

SHOE @ 5704'

TD @ 5750'

PERFORATION RECORD

03-20-08	5382-5388'	4 JSPF	24 holes
03-20-08	5346-5354'	4 JSPF	32 holes
03-25-08	4824-4835'	4 JSPF	44 holes
03-25-08	4691-4697'	4 JSPF	24 holes
03-25-08	4646-4654'	4 JSPF	32 holes
03-25-08	4196-4207'	4 JSPF	44 holes
03-25-08	3910-3920'	4 JSPF	40 holes
09-26-12	4843-4846'	3 JSPF	9 holes (no frac)
09-26-12	4575-4577'	3 JSPF	6 holes
09-26-12	4592-4593'	3 JSPF	3 holes
09-26-12	4428-4431'	3 JSPF	9 holes

**NEWFIELD****Federal 15-24-9-16**

660' FSL &amp; 1980' FEL

SW/SE Section 24-T9S-R16E

Duchesne Co, Utah

API # 43-013-33344; Lease # UTU-15855

## FEDERAL 13-24-9-16

Spud Date: 11/6/07  
 Put on Production: 2/5/08  
 GL: 5656' KB: 5668'

**SURFACE CASING**

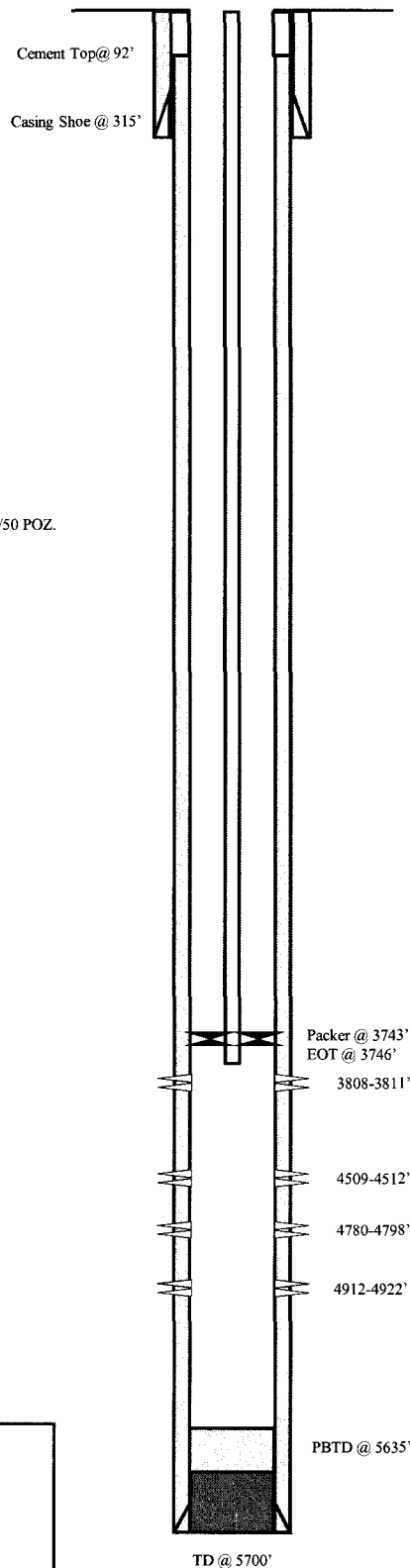
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (302.73')  
 DEPTH LANDED: 314.58'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 132 jts. (5661.02')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5674.27'  
 CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 92'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 118 jts (3727')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3739' KB  
 PACKER @: 3743.4'  
 TOTAL STRING LENGTH: EOT @ 3746.45'

**Injection Wellbore  
Diagram****FRAC JOB**

1/30/08	4912-4922'	<b>Frac LODC sands as follows</b> Frac with 19518# 20/40 sand in 315bbbs Lightning 17 fluid. Treat at 3001psi @ 23.2 BPM. ISIP 3269 psi.
1/30/08	4780-4798'	<b>Frac A1 sands as follows:</b> Frac with 102122# 20/40 sand in 772bbbs Lightning 17 fluid. Treat at 2124 psi @ 23.3 BPM. ISIP 3269psi.
8/12/09		<b>Pump Change.</b> Updated rod & tubing details.
2/6/10		<b>Tubing leak.</b> Updated rod and tubing detail.
05/07/12	4509-4512'	<b>Frac C sands as follows:</b> Frac with 11769# 20/40 sand in 154 bbbs Lightning 17 fluid.
05/07/12	3808-3811'	<b>Frac GB2 sands as follows:</b> Frac with 19313# 20/40 sand in 262 bbbs Lightning 17 fluid
05/09/12		<b>Convert to Injection Well</b>
05/15/12		<b>Conversion MIT Finalized</b> – update tbg detail

**PERFORATION RECORD**

4780-4798'	4 JSPF	72 holes
4912-4922'	4 JSPF	40 holes
05/04/12	4509-4512'	3 JSPF 9 holes
05/04/12	3808-3811'	3 JSPF 9 holes

**NEWFIELD**

**Federal 13-24-9-16**  
 684' FSL & 423' FWL  
 SWSW Section 24-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33342; Lease #UTU-15855

Spud Date: 1/28/08  
Put on Production: 03/27/08  
GL: 5524' KB: 5536'

## Federal 11-24-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

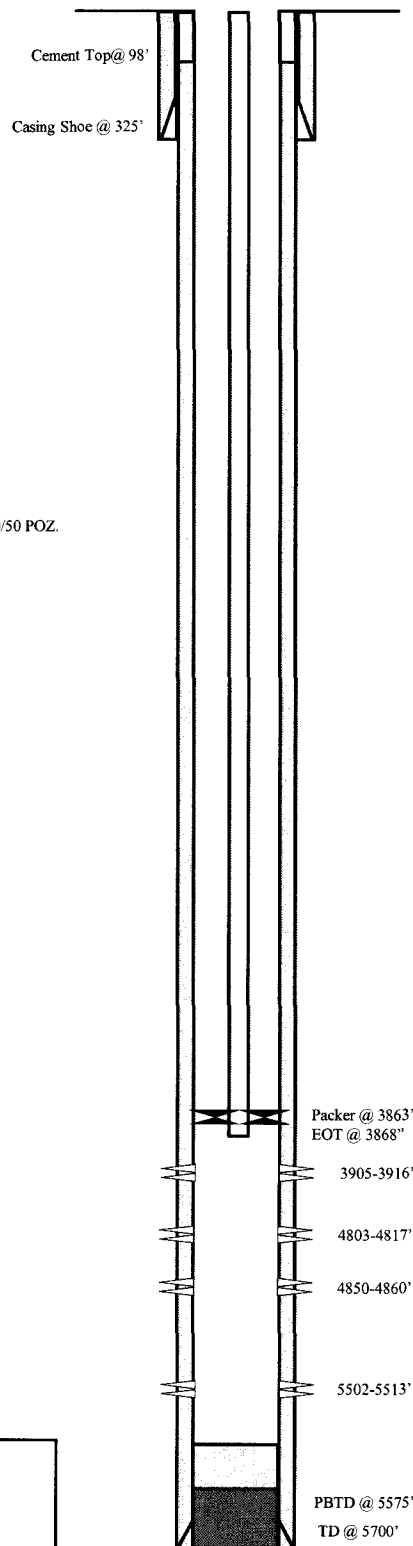
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (324.53')  
DEPTH LANDED: 325'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 134jts. (5713') Includes Shoe Jt. (42.35')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5683.90'  
CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 98'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 122 jts (3845.2')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 3857.2' KB  
ON/OFF TOOL: 2-7/8" @ 3858.3'  
X NIPPLE: 2-7/8" @ 3859.7'  
ARROW #1 PACKER CE @ 3863.39'  
X/N NIPPLE: 2-7/8" @ 3867'  
TOTAL STRING LENGTH: EOT @ 3868'



#### FRAC JOB

3-17-08	5502-5513'	<b>Frac CP.5 sands as follows:</b> Frac with 19765# 20/40 sand in 317bbls Lightning 17 fluid. Treat with ave pressure of 2298 psi @ 25.0 BPM. ISIP 1934 psi.
3-17-08	4803-4860'	<b>Frac A3 &amp; A1 sands as follows:</b> Frac with 44956# 20/40 sand in 505 bbls Lightning 17 fluid. Treat with ave pressure of 2193psi @ 24.5 BPM. ISIP 2242psi.
3-17-08	3905-3916'	<b>Frac GB6 sands as follows:</b> Frac with 35394# 20/40 sand in 401 bbls Lightning 17 fluid. Treat with ave pressure of 1791psi @ 24.8 BPM. ISIP 1896 psi.
1/11/10		<b>Parted rods.</b> Updated rod and tubing detail.
07/03/12		<b>Convert to Injection Well</b>
07/10/12		<b>Conversion MIT Finalized</b> – update tbg detail

#### PERFORATION RECORD

3905-3916'	4 JSPF	44 holes
4803-4817'	4 JSPF	56 holes
4850-4860'	4 JSPF	40 holes
5502-5513'	4 JSPF	44 holes

**NEWFIELD**



**Federal 11-24-9-16**  
1852' FSL & 2094' FWL  
NESW Section 24 –T9S-R16E  
Duchesne Co, Utah  
API #43-013-33340; Lease UTU-15855

## Federal 2-25-9-16

Spud Date: 11/6/2008  
 Put on Production: 1/12/2009  
 GL: 5690' KB: 5702'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts (300.69')  
 DEPTH LANDED: 312.54' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx glass 'g' cmt

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 147 jts (5829.94')  
 DEPTH LANDED: 5705.52  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sx primlite and 400 sx 50/50 poz  
 CEMENT TOP AT: 126'

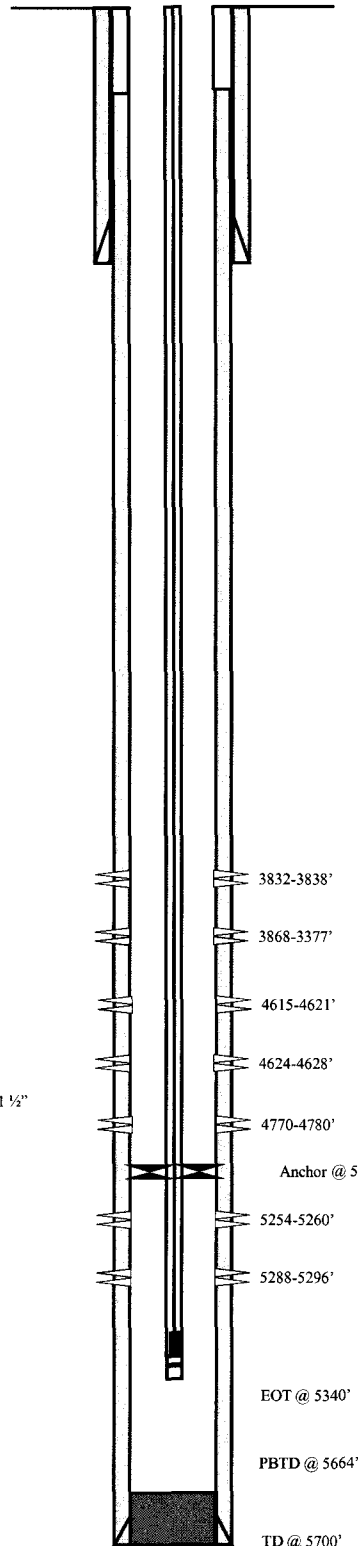
**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 167 jts (5228')  
 TUBING ANCHOR: 5240' KB  
 NO. OF JOINTS: 1 jt (32.70')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5275' KB  
 NO. OF JOINTS: 2 jts (63.03')  
 TOTAL STRING LENGTH: EOT @ 5340'

**SUCKER RODS**

POLISHED ROD: 1 1/2" x 26' polished rod  
 SUCKER RODS: 1-2', 4', 6', 8' x 3/4" ponies, 203-3/4" guided rods, 6-1 1/2" sinker bars, 7-1" Guided Rods.  
 PUMP SIZE: CDI 2 1/2" x 1 1/2" x 16' x 20' RHAC rod pump  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 4.5

## Wellbore Diagram

**FRAC JOB**

1/9/09 5254-5296' Frac CP1 & CP2 sds as follows:  
 39,567# 20/40 sand in 404 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1756 psi @ ave rate of 22.8 BPM. ISIP 1937 psi. Actual flush: 4964 gals.

1/9/09 4770-4780' Frac A1 sds as follows:  
 49,762# 20/40 sand in 454 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1776 psi @ ave rate of 22.8 BPM. ISIP 2239 psi. Actual flush: 4263 gals.

1/9/09 4615-4628' Frac B1 sds as follows:  
 39,649# 20/40 sand in 398 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1745 psi @ ave rate of 22.8 BPM. ISIP 2246 psi. Actual flush: 4108 gals.

1/9/09 3832-3377' Frac GB6 & GB4 sds as follows:  
 47,411# 20/40 sand in 421 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1622 psi @ ave rate of 22.9 BPM. ISIP 1868 psi. Actual flush: 3830 gals.

9/10/09 Tubing Leak. Updated rod & tubing details.

02/24/11 Tubing Leak. Updated rod & tubing details.

**PERFORATION RECORD**

1/9/09	3832-3838'	4 JSPF	24 holes
1/9/09	3868-3377'	4 JSPF	36 holes
1/9/09	4615-4621'	4 JSPF	24 holes
1/9/09	4624-4628'	4 JSPF	16 holes
1/9/09	4770-4780'	4 JSPF	40 holes
1/9/09	5254-5260'	4 JSPF	24 holes
1/9/09	5288-5296'	4 JSPF	32 holes



Federal 2-25-9-16

839' FNL &amp; 2034' FEL

NW/NE Section 25-T9S-R16E

Duchesne Co, Utah

API # 43-013-33554; Lease # UTU-64380



Federal 4-25-9-16

Spud Date: 11/5/2008  
Put on Production: 1/9/2009

GL: 5765' KB: 5777'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: ? jts ( 303.58')  
DEPTH LANDED: 313.58' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx class 'g'

**PRODUCTION CASING**

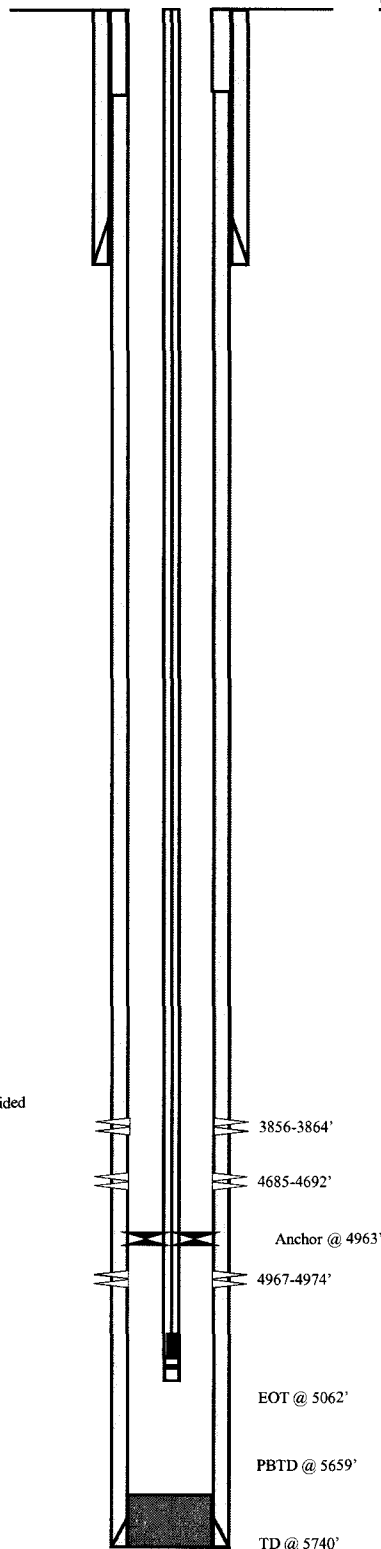
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 8 jts ( 6001.18')  
DEPTH LANDED: 5699.87'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sx primlite and 400 sx 50/50 poz  
CEMENT TOP AT: 120'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 159 jts (4951')  
TUBING ANCHOR: 4963' KB  
NO. OF JOINTS: 1jt (31.4')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4997' KB  
NO. OF JOINTS: 2 jts (62.8')  
TOTAL STRING LENGTH: EOT @ 5062'

**SUCKER RODS**

POLISHED ROD: 1 1/2" x 26'  
SUCKER RODS: 98-3/4" guided rods, 74-3/4" guided rods, 20-3/4" guided rods, 6-1 1/2" sinker bars  
PUMP SIZE: CDI 2 1/2" x 1 1/2" x 16" x 20' RHAC rod pump  
STROKE LENGTH: 178"  
PUMP SPEED, SPM: ?

**Wellbore Diagram****FRAC JOB**

1/5/09 4967-4974' Frac LODC sds as follows:  
w/ 24,518#s of 20/40 sand in 362 bbls of Lightning 17 fluid. Broke @ 3312 psi. Treated w/ ave pressure of 2480 psi w/ ave rate of 23.0 BPM. ISIP 2829 psi. Actual flush: 4452 gals.

1/5/09 4685-4692' Frac B2 sds as follows:  
w/ 40,581#s of 20/40 sand in 410 bbls of Lightning 17 fluid. Broke @ 4072 psi. Treated w/ ave pressure of 2150 psi w/ ave rate of 22.9 BPM. ISIP 2213 psi. Actual flush: 4087 gals.

1/2/09 3856-3864' Frac GB2 sds as follows:  
w/ 42,107#s of 20/40 sand in 388 bbls of Lightning 17 fluid. Broke @ 1770 psi. Treated w/ ave pressure of 1900 psi w/ ave rate of 23.0 BPM. ISIP 1733 psi. Actual flush: 3767 gals.

02/12/2011

Tubing Leak. Rod & tubing updated.

**PERFORATION RECORD**

1/5/09	3856-3864'	4 JSPF	32 holes
1/5/09	4685-4692'	4 JSPF	28 holes
1/5/09	4967-4974'	4 JSPF	28 holes



**Federal 4-25-9-16**

554' FNL & 733' FWL

NW/NW Section 25-T9S-R16E

Duchesne Co, Utah

API # 43-013-33555; Lease # UTU-64380

## FEDERAL 12A-24-9-16

Spud Date: 11/05/07  
Put on Production: 01/26/08

GL: 5640' KB: 5652'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (306.37')  
DEPTH LANDED: 318.22' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 0 bbls cmt to surf.

**PRODUCTION CASING**

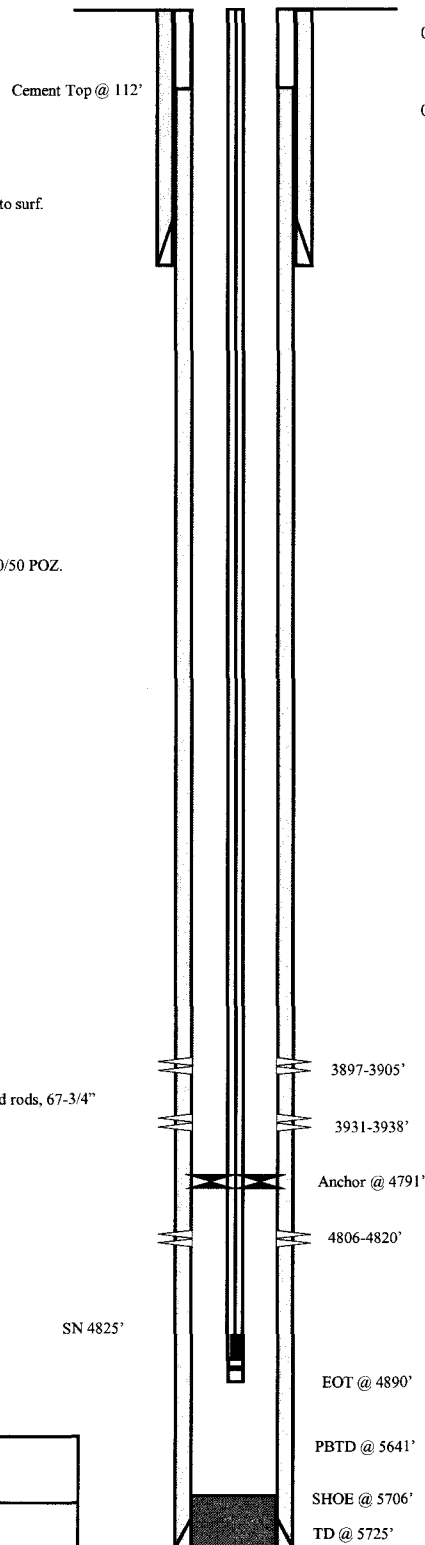
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 147 jts. (5692.63')  
DEPTH LANDED: 5705.88' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 112'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 152 jts (4778.87')  
TUBING ANCHOR: 4790.87' KB  
NO. OF JOINTS: 1 jts (31.42')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4825.09' KB  
NO. OF JOINTS: 2 jts (62.86')  
TOTAL STRING LENGTH: EOT @ 4889.50' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM polished rods  
SUCKER RODS: 1-2', 4', 8' x 3/4" pony rods, 99-3/4" guided rods, 67-3/4" plain rods, 20-3/4" guided rods, 6-1 1/2" weight rods.  
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14' RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, 5 SPM:

**Wellbore Diagram****FRAC JOB**

01/22/2008 4806-4820' **Frac A1 sands as follows:**  
70235# 20/40 sand in 570 bbls Lightning 17  
frac fluid. Treated @ avg press of 1932 psi  
w/avg rate of 23.3 BPM. ISIP 2247 psi.  
01/22/2008 3897-3938' **Frac GB6 sands as follows:**  
64050# 20/40 sand in 507 bbl Lightning 17  
frac fluid. Treated @ avg press of 1813 psi  
w/avg rate of 23.3 BPM. ISIP 1701 psi.

**PERFORATION RECORD**

4806-4820'	4 JSPF	56 holes
3931-3938'	4 JSPF	28 holes
3897-3905'	4 JSPF	32 holes

**NEWFIELD****FEDERAL 12A-24-9-16**

1951' FSL &amp; 482' FWL

NW/SW Section 24-T9S-R16E

Duchesne Co, Utah

API #43-013-33341; Lease # UTU-15855

## Balcron Federal 21-25Y-9-16

Spud Date: 9/7/1993

Put on Production: 10/28/1993

GL: 5692' KB: 5705'

Initial Production: 20 BOPD,  
300 MCFD, 45 BWPDInjection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: K-55

WEIGHT: 24#

DEPTH LANDED: 282'

LENGTH: 6 jts. (271')

HOLE SIZE: 12-1/4"

CEMENT DATA: 150 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: K-55

WEIGHT: 15.5#

LENGTH: 130 jts. (5622.94')

DEPTH LANDED: 5636.94'

HOLE SIZE: 7-7/8"

CEMENT DATA: 215 sxs Thrifty Lite &amp; 294 sxs 50/50 POZ.

CEMENT TOP AT: 1800' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 118 jts (3626.7')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3639.7' KB

ON/OFF TOOL AT: 3640.8'

ARROW #1 PACKER CE AT: 3647'

XO 2-3/8 x 2-7/8 J-55 AT: 3649.6'

TBG PUP 2-3/8 J-55 AT: 3650.1'

X/N NIPPLE AT: 3655.4'

TOTAL STRING LENGTH: EOT @ 3655.8'

Casing shoe @ 282'

Cement Top @ 1800'

SN @ 3640'

On Off Tool @ 3641'

Packer @ 3647'

X/N Nipple @ 3655'  
EOT @ 3656'

3690'-3704'

3884'-3895'

3897'-3903'

3919'-3929'

4367'-4371'

4632'-4640'

4654'-4658'

4790'-4794'

5483'-5489'

5494'-5504'

PBSD @ 5592'  
TD @ 5650'FRAC JOB

10/11/93 4632'-4790'

**Frac zone as follows:**35,000# 16/30 sand in 398 bbls gelled  
KCL frac fluid. Treated @ avg press of  
2800 psi w/avg rate of 2.5 BPM. ISIP  
2400 psi.

10/15/01 4367'-4371'

**Frac zone as follows:**11,340# 16/30 sand in 166 bbls gelled  
KCL frac fluid. Treated @ avg press of  
2600 psi w/avg rate of 15.4 BPM. ISIP  
2500 psi.

8/18/95 3690'-3929'

**Frac zone as follows:**117,300# 16/30 sand in 708 bbls gelled  
KCL frac fluid.

5/31/98

**Shut in. Hole in tubing.**

5/25/04

**Tubing leak.** Update rod and tubing  
details.

11/08/12 5483'-5504'

**Frac CP5 zone as follows:** 20553#  
20/40 sand in 204 bbls Lightning 17 frac  
fluid.

11/09/12

**Convert to Injection well**

11/15/12

**Conversion MIT Finalized** - update tbg  
detailPERFORATION RECORD

10/08/93	4790'-4794'	1 JSPF	8 holes
10/08/93	4654'-4658'	1 JSPF	4 holes
10/08/93	4632'-4640'	1 JSPF	6 holes
10/08/93	4367'-4371'	1 JSPF	9 holes
08/18/95	3919'-3929'	1 JSPF	3 holes
08/18/95	3897'-3903'	1 JSPF	2 holes
08/18/95	3884'-3895'	1 JSPF	2 holes
08/18/95	3690'-3704'	1 JSPF	7 holes
11/07/12	5494'-5504'	3 JSPF	30 holes
11/07/12	5483'-5489'	3 JSPF	18 holes

**NEWFIELD****Balcron Federal 21-25Y-9-16**

500' FNL &amp; 1980' FWL

NENW Section 25-T9S-R16E

Duchesne Co, Utah

API #43-013-31394; Lease #U-64380

**Multi-Chem Analytical Laboratory**

1553 East Highway 40

Vernal, UT 84078

 Units of Measurement: **Standard**
**Water Analysis Report**

 Production Company: **NEWFIELD PRODUCTION**

 Well Name: **FEDERAL 14-24-9-16**

Sample Point:

 Sample Date: **9/3/2013**

 Sample ID: **WA-252703**

 Sales Rep: **Michael McBride**

 Lab Tech: **Gary Winegar**

 Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	9/10/2013	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	120	Sodium (Na):	6551.00	Chloride (Cl):	13000.00
System Pressure 1 (psig):	60	Potassium (K):	72.00	Sulfate (SO <sub>4</sub> ):	589.00
System Temperature 2 (°F):	210	Magnesium (Mg):	14.00	Bicarbonate (HCO <sub>3</sub> ):	5368.00
System Pressure 2 (psig):	60	Calcium (Ca):	23.00	Carbonate (CO <sub>3</sub> ):	
Calculated Density (g/ml):	1.013	Strontium (Sr):	6.30	Acetic Acid (CH <sub>3</sub> COO)	
pH:	9.00	Barium (Ba):	2.40	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
Calculated TDS (mg/L):	25840.67	Iron (Fe):	2.40	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
CO <sub>2</sub> in Gas (%):		Zinc (Zn):	0.04	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
Dissolved CO <sub>2</sub> (mg/L):	0.00	Lead (Pb):	0.00	Fluoride (F):	
H <sub>2</sub> S in Gas (%):		Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Water (mg/L):	200.00	Manganese (Mn):	1.40	Silica (SiO <sub>2</sub> ):	11.13

**Notes:**

B=5.9 AI=0 LI=1.1

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	2.46	20.06	0.80	1.21	5.01	1.32	3.51	1.75	0.00	0.00	0.00	0.00	0.00	0.00	9.85	0.02
200.00	60.00	2.41	20.05	0.82	1.21	5.01	1.32	3.46	1.75	0.00	0.00	0.00	0.00	0.00	0.00	9.94	0.02
190.00	60.00	2.37	20.04	0.84	1.22	5.00	1.32	3.42	1.75	0.00	0.00	0.00	0.00	0.00	0.00	10.04	0.02
180.00	60.00	2.33	20.03	0.87	1.24	5.01	1.32	3.38	1.75	0.00	0.00	0.00	0.00	0.00	0.00	10.14	0.02
170.00	60.00	2.29	20.02	0.90	1.25	5.01	1.32	3.33	1.75	0.00	0.00	0.00	0.00	0.00	0.00	10.25	0.02
160.00	60.00	2.25	20.01	0.94	1.26	5.03	1.32	3.29	1.75	0.00	0.00	0.00	0.00	0.00	0.00	10.37	0.02
150.00	60.00	2.21	20.00	0.98	1.28	5.05	1.32	3.24	1.75	0.00	0.00	0.00	0.00	0.00	0.00	10.49	0.02
140.00	60.00	2.18	19.99	1.02	1.29	5.07	1.32	3.19	1.75	0.00	0.00	0.00	0.00	0.00	0.00	10.63	0.02
130.00	60.00	2.14	19.98	1.07	1.31	5.11	1.32	3.14	1.75	0.00	0.00	0.00	0.00	0.00	0.00	10.77	0.02
120.00	60.00	2.11	19.97	1.13	1.32	5.15	1.32	3.09	1.75	0.00	0.00	0.00	0.00	0.00	0.00	10.92	0.02

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

A HALLIBURTON SERVICE

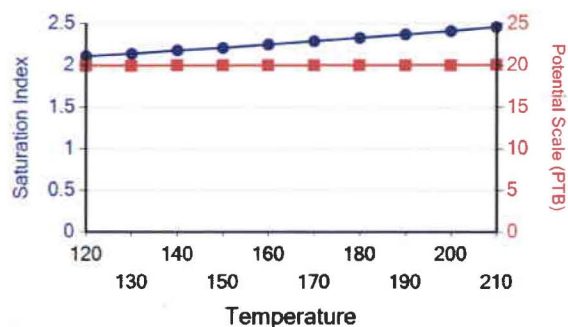
## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> •0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	0.02	0.00	0.00	8.62	13.49	4.29	7.00	12.95	1.87
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54	0.02	0.00	0.00	8.25	13.49	4.09	6.99	12.71	1.87
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.46	0.02	0.00	0.00	7.88	13.49	3.88	6.98	12.46	1.87
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	0.02	0.00	0.00	7.49	13.49	3.67	6.96	12.22	1.87
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.02	0.00	0.00	7.11	13.49	3.46	6.93	11.98	1.87
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.02	0.00	0.00	6.72	13.48	3.25	6.90	11.74	1.87
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.02	0.00	0.00	6.33	13.48	3.04	6.86	11.50	1.86
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.02	0.00	0.00	5.94	13.47	2.83	6.81	11.26	1.86
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.02	0.00	0.00	5.54	13.45	2.62	6.75	11.03	1.86
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.02	0.00	0.00	5.15	13.42	2.41	6.66	10.80	1.86

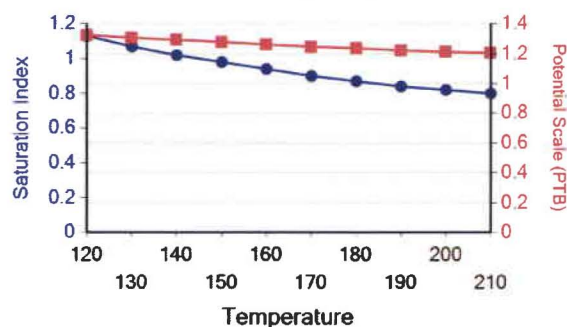
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

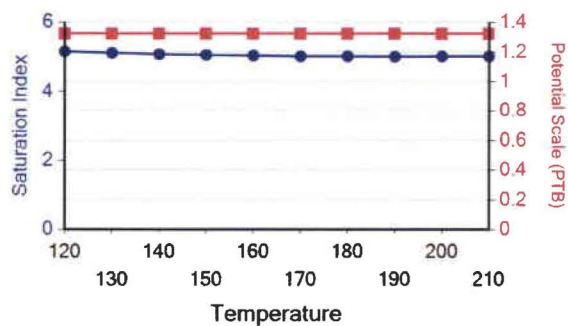
Calcium Carbonate



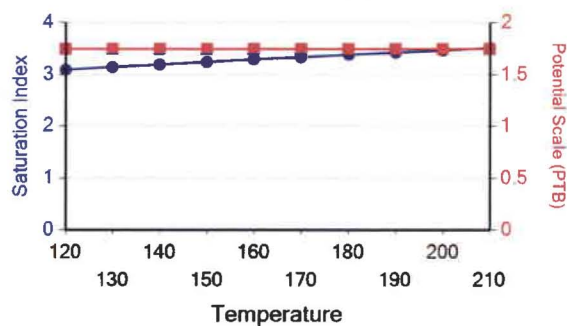
Barium Sulfate



Iron Sulfide



Iron Carbonate





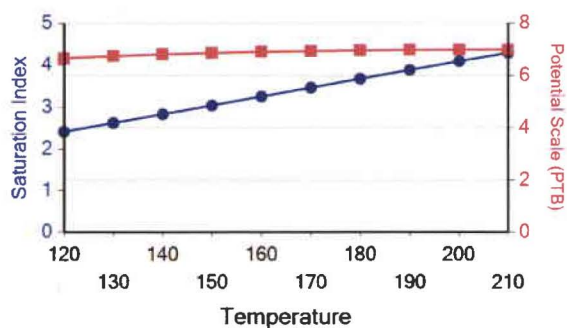
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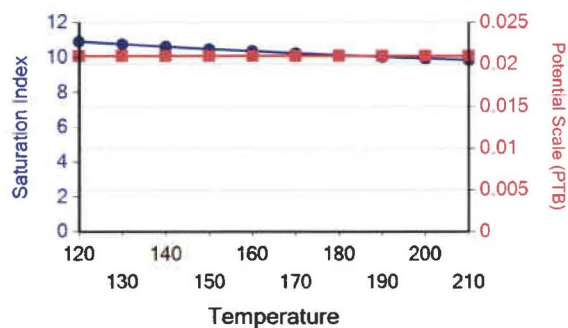
Vernal, UT 84078

## Water Analysis Report

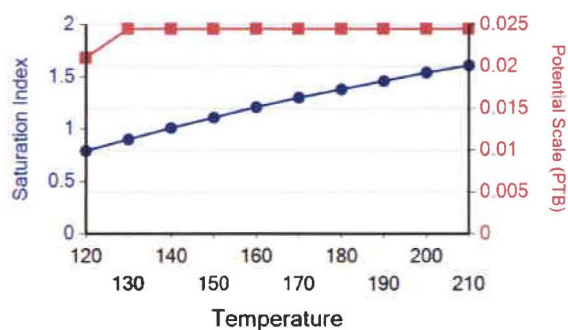
Ca Mg Silicate



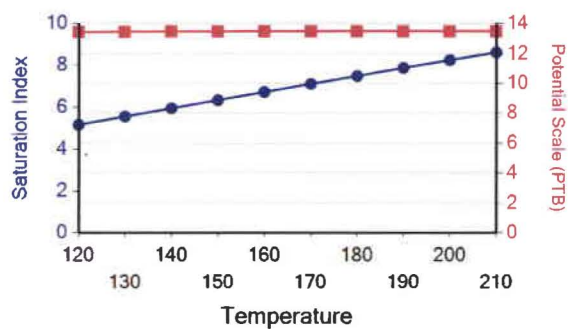
Zinc Sulfide



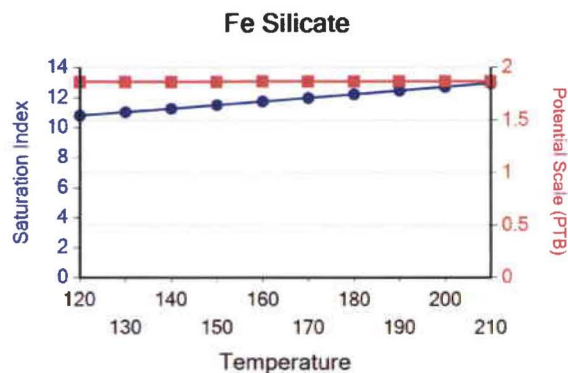
Zinc Carbonate



Mg Silicate



Water Analysis Report



## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Well Name: **BELUGA INJECTION**Sample Point: **After Filters**Sample Date: **11/28/2012**Sample ID: **WA-228948**Sales Rep: **Michael McBride**Lab Tech: **Gary Peterson**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	12/5/2012	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	120.00	Sodium (Na):	2814.83	Chloride (Cl):	4000.00
System Pressure 1 (psig):	60.0000	Potassium (K):	20.00	Sulfate (SO <sub>4</sub> ):	460.00
System Temperature 2 (°F):	210.00	Magnesium (Mg):	47.00	Bicarbonate (HCO <sub>3</sub> ):	512.00
System Pressure 2 (psig):	60.0000	Calcium (Ca):	79.00	Carbonate (CO <sub>3</sub> ):	
Calculated Density (g/ml):	1.003	Strontium (Sr):		Acetic Acid (CH <sub>3</sub> COO)	
pH:	7.40	Barium (Ba):	0.14	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
Calculated TDS (mg/L):	7933.86	Iron (Fe):	0.17	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
CO <sub>2</sub> in Gas (%):		Zinc (Zn):	0.02	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
Dissolved CO <sub>2</sub> (mg/L):	13.00	Lead (Pb):	0.00	Fluoride (F):	
H <sub>2</sub> S in Gas (%):		Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Water (mg/L):	7.00	Manganese (Mn):	0.70	Silica (SiO <sub>2</sub> ):	

## Notes:

11:30

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.96	36.46	0.00	0.00	1.15	0.09	0.30	0.06	0.00	0.00	0.00	0.00	0.00	0.00	7.08	0.01
200.00	60.00	0.89	33.50	0.00	0.00	1.11	0.09	0.22	0.05	0.00	0.00	0.00	0.00	0.00	0.00	7.13	0.01
190.00	60.00	0.81	30.53	0.00	0.00	1.06	0.08	0.15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	7.19	0.01
180.00	60.00	0.73	27.58	0.00	0.00	1.03	0.08	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	7.25	0.01
170.00	60.00	0.66	24.68	0.02	0.00	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.32	0.01
160.00	60.00	0.59	21.85	0.05	0.01	0.97	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.40	0.01
150.00	60.00	0.52	19.12	0.08	0.01	0.95	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.48	0.01
140.00	60.00	0.45	16.50	0.12	0.02	0.93	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.57	0.01
130.00	60.00	0.39	14.02	0.17	0.03	0.93	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.67	0.01
120.00	60.00	0.33	11.69	0.23	0.04	0.93	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.79	0.01



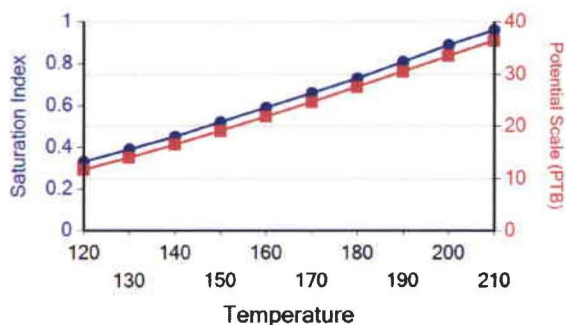
## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ·0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

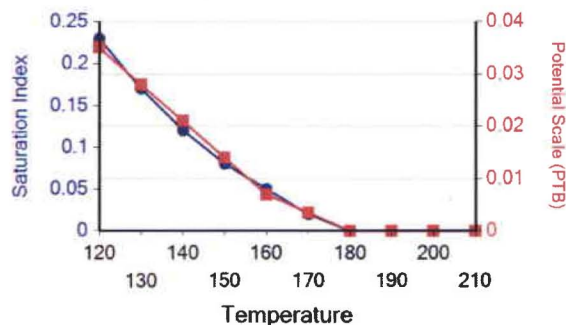
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Zinc Sulfide

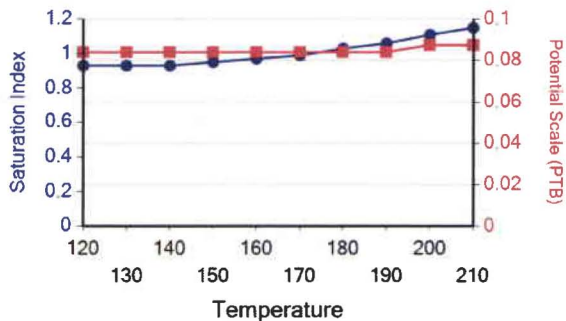
Calcium Carbonate



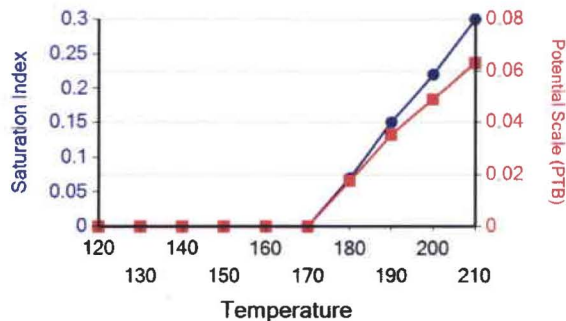
Barium Sulfate



Iron Sulfide

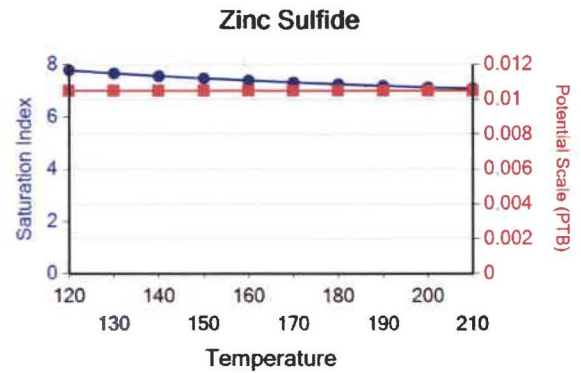


Iron Carbonate



Multi-Chem Analytical Laboratory  
1553 East Highway 40  
Vernal, UT 84078

## Water Analysis Report



**Attachment "G"**

**Federal #14-24-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient	Pmax
Top	Bottom			(psi/ft)	
5547	5567	5557	2069	0.81	2033
5353	5361	5357	1989	0.80	1954
5226	5233	5230	2268	0.87	2234
4576	4591	4584	2299	0.94	2269
3900	3998	3949	1794	0.89	1769
				<b>Minimum</b>	<u>1769</u>

**Calculation of Maximum Surface Injection Pressure**

$P_{max} = (Frac\ Grad - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.015.

$$Frac\ Gradient = (ISIP + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.

**Daily Activity Report**

Format For Sundry

**FEDERAL/4-24-9-16****12/1/2007 To 4/29/2008****2/16/2008 Day: 1****Completion**

Rigless on 2/15/2008 - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5672' & cement top @ 84'. Perforate stage #1, CP1 sds @ 5350-60' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 4 spf for total of 40 shots. 110 BWTR. SWIFN.

**2/22/2008 Day: 2****Completion**

Rigless on 2/21/2008 - Stage #1 CP1 sds. RU BJ Services. 35 psi on well. Frac CP1 sds w/ 19,538#'s of 20/40 sand in 318 bbls of Lightning 17 fluid. Broke @ 3150 psi. Treated w/ ave pressure of 2319 psi w/ ave rate of 23.0 BPM. ISIP 2169 psi. Leave pressure on well. 428 BWTR. Stage #2 LODC sds RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 6' perf gun. Set plug @ 5170'. Perforate LODC sds @ 5062-68' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RU BJ Services. 1624 psi on well. Perfs would not break. Duimp bail acid on perfs. RU BJ Services. 1468 psi on well. Frac LODC sds w/ 14,448#'s of 20/40 sand in 267 bbls of Lightning 17 fluid. Broke @ 3522 psi. Treated w/ ave pressure of 2913 psi @ ave rate of 23.1 BPM. ISIP 3354 psi. Leave pressure on well. 695 BWTR. Stage #3 A1 & A3 sds RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 7', 11' perf guns. Set plug @ 4990'. Perforate A1 sds @ 4893-4900' & A3 sds @ 4936-47' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 72 shots. RU BJ Services. 1668 psi on well. Perfs would not break. Dump bail acid on perfs. RU BJ Services. 1624 psi on well. Perfs would not break. Open well to pit for cleanup. Well flowed for 30 min. & died. RD BJ Services & wireline. SWIFN.

**2/23/2008 Day: 3****Completion**

Western #4 on 2/22/2008 - Thaw out well. Bleed off well. ND Cameron BOP. NU Schafer BOP. RIH w/ 2 7/8" notched collar & new 2 7/8" tbg. from pipe rack (tallying & drifting). Tag sand @ 4900'. C/O to CBP @ 4990'. Circulate well clean w/ KCL water. POOH w/ tbg. ND Schafer BOP. NU Cameron BOP. SWIFN.

**2/24/2008 Day: 4****Completion**

Western #4 on 2/23/2008 - Stage #3 A1 & A3 sds. RU BJ Services. 226 psi on well. Frac A1 & A3 sds w/ 79,356#'s of 20/40 sand in 628 bbls of Lightning 17 fluid. Broke @ 2954 psi. Treated w/ ave pressure of 2038 psi w/ ave rate of 23.1 BPM. ISIP 2069 psi. Leave pressure on well. 1323 BWTR. Stage #4 D1 sds RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 10' perf gun. Set plug @ 4570'. Perforate D1 sds @ 4481-91' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 40 shots. RU BJ Services. 1919 psi on well. Perfs would not break. Duimp bail acid on perfs. RU BJ Services. 1236 psi on well. Frac D1 sds w/ 54,904#'s of 20/40 sand in 482 bbls of Lightning 17 fluid. Broke @ 3972 psi. Treated w/ ave pressure of 2070 psi @ ave rate of 23.1 BPM. ISIP 2153 psi. Leave pressure on well. 1805 BWTR. Stage #5 GB6 sds RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 14' perf gun. Set plug @ 4130'. Perforate GB6 sds @ 4018-32' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 56 shots. RU BJ Services. 2030 psi on well. Perfs would not break. Duimp bail acid on perfs. RU BJ Services. 1805 psi on well. Frac GB6 sds w/ 74,458#'s of 20/40 sand in 594 bbls of Lightning 17 fluid. Broke @ 4104 psi. Treated w/ ave pressure of 2125 psi @ ave rate of 23.1 BPM. ISIP 1788 psi. Open well to pit for immediate flowback @ approx. 1 bpm. Well flowed for 5 hrs. & died. Recovered 280 bbls. SWIFN.

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**2/26/2008 Day: 5****Completion**

Western #4 on 2/25/2008 - Hot oiler steamed & thawed out BOP & WH. 150 psi on csg. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" chomp bit, bit sub & 2 7/8" J-55 tbg. Tagged sand @ 4118'. RU Nabors power swivel & pump & lines. Circulate sand & drill out plugs as follows: Sand @ 4118', Plug @ 4130' (Drilled up in 14 mins). Sand @ 4539', Plug @ 4570' (Drilled up in 13 mins). Sand @ 4892', Plug @ 4990' (Drilled up in 21 mins). Sand @ 5150', Plug @ 5170' (Drilled up 16 mins). Sand 5557'. C/O to PBTD @ 5705'. Circulate well clean. LD 2 jts of tbg. EOT @ 5617'. RU swab equipment. IFL @ surface. Made 6 runs. Rec 70 BTF. FFL @ 1200'. SIWFN w/ 2144 BWTR.

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**2/27/2008 Day: 6****Completion**

Western #4 on 2/26/2008 - 50 psi on tbg, 0 psi on csg. Continue swabbing. IFL @ 300', Made 14 runs. Rec 155 BTF. No sand, Trace oil. FFL @ 900'. TIH w/ tbg, Tagged @ PBTD (5705'). Circulate well clean. LD extra tbg. TOH w/ tbg. LD bit & bit sub. TIH w/ production tbg as follows: NC, 2 jts, SN, 2 jt, TA, 169 jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 16,000#'s tension @ 5310', SN @ 5376', EOT @ 5440'. NU WH. Flushed tbg w/ 60 BW. PU & prime up rod pump. PU & RIH w/ "A" grade rods as follows: 2 1/2" X 1 1/2" X 19 1/2' RHAC "CDI", 6- 1 1/2" wt bars, 20- 3/4" guided rods, 89- 3/4" plain rods, 99- 3/4" guided rods, 1-2', 1-4', 1-6' X 3/4" ponys, 1 1/2" X 26' Polish rod. Hang head, Space out rods. Fill tbg w/ 6 bbls of wtr. Pressure test to 800 psi. RDMOSU. POP @ 6:30 PM w/ 102" SL @ 5 SPM. 2109 BWTR. FINAL REPORT!!!

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**Pertinent Files: [Go to File List](#)**

## **ATTACHMENT H**

### **WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. Set CIBP @ 3850'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 170' balance plug using 21 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 43 sx Class "G" cement down 5 ½" casing to 373'

The approximate cost to plug and abandon this well is \$42,000.

## Federal 14-24-9-16

Spud Date: 1/18/08  
Put on Production: 3/24/08  
GL: 5704' KB: 5716'

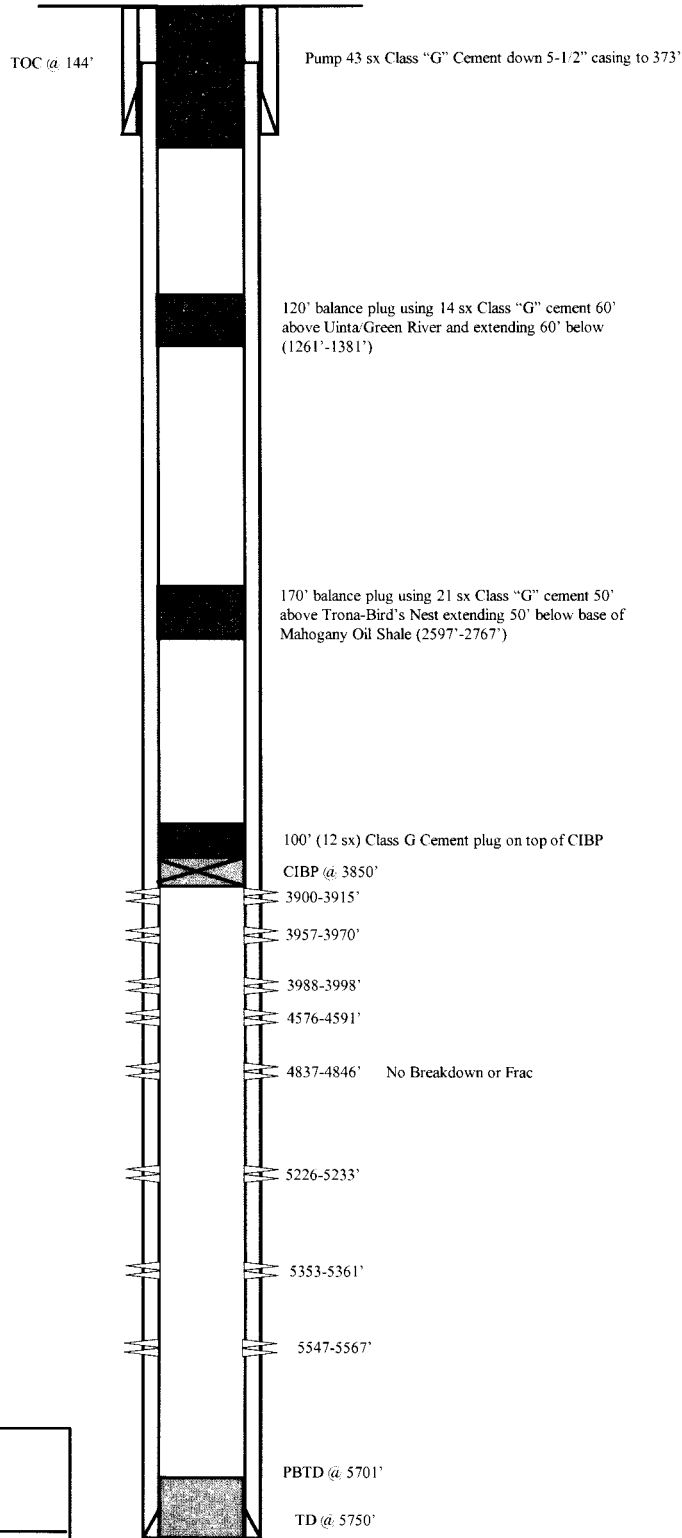
### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (311.53')  
DEPTH LANDED: 323.38'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G", circ. 4 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 135 jts (5732.19')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5745.44'  
CEMENT DATA: 300 sxs Premilite II & 400 sxs 50/50 POZ  
CEMENT TOP AT: 144' per CBL 3/10/08

### Proposed P & A Wellbore Diagram



**NEWFIELD**

**Federal 14-24-9-16**  
617' FSL & 2285' FWL  
SE/SW Section 24 -T9S-R16E  
Duchesne Co, Utah  
API #43-013-33343; Lease UTU-15855